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Hydrometeorological Data for the Experimental Lakes Area, Northwestern Ontario, 19[illegible] to 1987

K.G. Beaty and M.E. Lyng

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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by

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ABSTRACT

Beaty, K.G., and M.E. Lyng. 1989. Hydrometeorological data for the Experimental Lakes Area, northwestern Ontario, 1982 to 1987. Can. Data Rep. Fish Aquat. Sci. 759: v + 280 p.

In 1969, hydrologic studies began at the Experimental Lakes Area in support of biological and limnological studies. This report is the third of a series and presents hydrometeorological data collected during the 1982 to 1987 period of study. Historical summaries from 1969 to 1987 for some components are also included. The data presented include precipitation, snow surveys, air temperature, wind, evaporation, relative humidity, bright sunshine, lake surface temperature, streamflows and lake levels.

Key words: Experimental Lakes Area; watersheds; climatology; hydrology; meteorological data.

RÉSUMÉ

Beaty, K.G., and M.E. Lyng. 1989. Hydrometeorological data for the Experimental Lakes Area, northwestern Ontario, 1982 to 1987. Can. Data Rep. Fish Aquat. Sci. 759: v + 280 p.

En 1969, on entreprit dans la Région des Lacs Expérimentaux d'études hydrologiques pour compléter les études biologiques et limnologiques. Le présent rapport constitue le troixième d'une série et contient des données hydrométéorologiques recueillies lors des études effectuées de 1982 à 1987. Dans le cas de certaines données, on a également inclu des résumés historiques pour la période s'étalant entre 1969 et 1987. Les données portent notamment sur les précipitations, les relevés nivométriques, la température, de l'air, le vent, l'évaporation, l'humidité, l'insolation, la température en surface de l'eau, le débit d'eau et le niveau d'eau des lacs.

Mots-clés: Région des Lacs Expérimentaux; bassins hydrographiques; climatologie; hydrologie; données météorologiques.

INTRODUCTION

Hydrologic studies continued at the Experimental Lakes Area (ELA) in the years 1982 to 1987 in support of ongoing limnological studies. This report is the third of a series dealing with the hydrometeorological data collected as a part of the hydrological studies program (see Beaty 1981 for the years 1969 to 1978 and Beaty 1984 for 1979 to 1981). Together, these three reports summarize 19 years of hydrometeorological data and, now at the end of 1988, the available data set is 20 years.

The emphasis of the ELA program throughout its existence has been on whole-lake manipulations with an increasing awareness that long term data sets for undisturbed reference lakes are extremely important (Mills and Schindler 1987). Schindler (1987) discussed the importance of detailed, prolonged monitoring. It is within the whole ecosystem and long term context that the hydrologic studies program has evolved.

The rationale for ELA (Johnson and Vallentyne 1971; Schindler 1988) and its geography, etc. (Brunskill and Schindler 1971) have been discussed by others and need not be restated. It may, however, be helpful to restate the purpose of the hydrologic studies program, and in doing so, also reaffirm the intention of this report.

The supply of nutrients, metals, etc. to lakes is derived by determining the contribution from precipitation, direct runoff, streamflow and groundwater seepage. To establish the supply of chemical constituents, it is necessary to identify, sample and gauge or estimate the individual components of the hydrologic cycle. The primary objective of the hydrologic studies program has been to determine, within a water budget framework, the sources and quantities of water entering and leaving small lakes in a portion of ELA. It is the purpose of this report to summarize all hydrometeorological data collected from 1982 to 1987 and to provide historical summaries (1969 to 1987) for some components as they relate to the above objective.

DISCUSSION

HYDROLOGIC STUDIES AT ELA

During the six year period reported here, the program received continued service support from the Atmospheric Environment Service (AES), and from the Water Survey of Canada (WSC) until March 31, 1985. AES continued to provide technical service and equipment loan for the meteorological site throughout the period. The involvement of WSC was with construction, maintenance and servicing of much of the stream and lake gauging network, as well as computation of mean daily discharge and lake level data. From April 1, 1985, following the withdrawal of WSC from the ELA program, all hydrological functions were handled by the ELA hydrology program. The ELA hydrological program has coordinated the involvement of several participating external agencies and provided additional service, collection and analysis of data.

PRESENTATION OF DATA

This report has been organized to suit the needs of the majority of its users. While some require daily or hourly data, others are often only interested in means or totals over a period. The report is organized into 10 appendices, each dealing with a particular type of data. For each appendix, either a complete or an updated discussion of methods, site or significant events has been included. For the purpose of continuity, the order and content of the 10 appendices is common to all of the three reports.

Appendices 1 to 9 deal with climatological data including precipitation, snow surveys, air temperature, wind, evaporation pan, relative humidity, bright sunshine, Rawson Lake surface temperature, and Rawson Lake ice-on and ice-off records.

Appendix 10 deals with hydrometric data including streamflow and lake level. Discussions provide an update on watershed changes, such as forest fires or beaver activity, that may have influenced hydrologic behaviour as well as any station or structure changes that may have occurred.

This report is intended to serve mainly as an update and is one of a series. Users are therefore encouraged to refer to relevant discussions in all reports when using long data sets.

ACKNOWLEDGMENTS

Many individuals, too numerous to mention, have assisted in the installation and upkeep of equipment, and the collection and preparation of data for this report. Without them, this report would not have been possible. The assistance provided by Water Survey of Canada and Atmospheric Environment Service is gratefully acknowledged. Much of the winter record was made possible by the contributions of ELA camp managers Dave Braun, Larry Marwick, Dave Holmgren and Paul Sauve. Dr. D.W. Schindler continued to provide valuable project

direction and support for the hydrologic studies program. Dr. R.W. Newbury's encouragement and direction over the years made this work interesting and satisfying to perform. With his departure from the Department in June, 1987, his input will be greatly missed. Thanks go to the numerous technical field assistants over the years: Al Solinske, in the summer and fall of 1982 and winter of 1982-83; Craig Allan, Hank Vandenhort and Wally Lesawich in 1983; Jim Millman in the summer and fall of 1983 and summer of 1984; Jeff Neufeld and Louise MacDonald in the fall of 1984 and winter of 1984-85; Dave Holla in the summer of 1985; and Gord Taylor in the summers of 1986 and 1987. Ms. Sharon Ryland is especially appreciated for her patience and for her valuable assistance in the preparation of this report.

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APPENDIX 1

PRECIPITATION DATA

Measurements of precipitation at ELA consist of twice daily standard rain gauge readings, twice daily snowfall water equivalents, weekly measurements of rainfall from a standard rain gauge network, and snow survey measurements. Snow survey summaries are provided in Appendix 2.

On June 27, 1969, a standard Class A reporting meteorological site (Station 1, Fig. 1) was installed with the assistance and cooperation of the Atmospheric Environment Service (AES). Daily and hourly precipitation records from the meteorological site (Station 1) have been contributed to AES since 1969. They have published some of this data in a different and somewhat less detailed form regularly in AES regional summaries (Canada Department of the Environment (AES) 1969-1987).

Detailed daily and hourly data for 1982 to 1987 are included in this report. Records for the periods 1969 to 1978 and 1979 to 1981 have been previously published (Beaty 1981 and Beaty 1984). A number of historical summary tables (1969-1987) have been included to make the data more meaningful.

Daily precipitation at Station 1

Tables 1 to 6 provide daily values of precipitation reported to the nearest 0.2 mm of water measured at Station 1 for the years 1982 to 1987. The daily values apply to a standard "precipitation day" from 08:00 central standard time (CST) of one day to 08:00 of the following day and are the sum of two daily measurements, morning and evening. In months where both rain and snow occurred, rain was indicated "r", snow was indicated "s", and mixed events were indicated "m" beside the value.

Rainfall was measured in an AES copper standard rain gauge to the nearest 0.01 inch (0.25 mm) up until August 1978 and in an AES Type B white plastic standard gauge to the nearest 0.2 mm since then. In winter, snowfall water equivalents were measured using a shielded Nipher gauge.

Recorded hourly precipitation at Station 1

Tables 7 to 12 provide hourly values of rainfall measured at the Station 1 meteorological site for May to October each year. This data is important for the analysis of stream runoff hydrographs and for the separation of precipitation amounts in water budget calculations.

Data was collected using an AES tipping bucket rain gauge, which is sensitive to 0.2 mm of rainfall, and a daily chart event recorder. The tipping bucket type of gauge is probably the most common of the short duration recording rainfall gauges. One minor problem with them, however, is that they do tend to catch slightly less than true rainfall. To overcome this, recorded values were corrected to a non-recording standard rain gauge located about 3 m away. Since this type of gauge is not suitable for the measurement of snow, problems were often encountered in May and October when events of mixed or freezing precipitation occurred. Whenever this occurred and recorded hourly values were unavailable, standard gauge totals were included and were indicated by an asterisk (*) in the daily total column. All data abstractions from the daily recorder charts for this station were made on site and then the chart originals were filed with AES headquarters (Toronto).

Weekly and monthly rainfall amounts for all stations

During each of the 6 open water seasons from 1982 to 1987, from 6 to 10 standard rain gauge sites were used to account for spatial variations in rainfall (Fig. 1). Gauges were read at least weekly, usually Monday afternoons or Tuesday mornings. Station 1 was the meteorological site and was also equipped with a daily tipping bucket recording rain gauge. Stations 3, 7, 8, 10, 11, and 13 were also equipped with weekly tipping bucket recording rain gauges (data available on request). Both copper and plastic standard gauges were in use for part of the period reported. All stations were coded in the following tables to indicate the type of gauge in use at a particular site. Evaporation from the gauges, over the week, was assumed to be negligible due to the funnel design and small orifice of the gauge.

Spatial variation in rainfall amounts can be significant. An extreme example occurred on September 23, 1982 when rainfall amounts of 15.5 and 52.4 mm were measured at Lake 114 and the East Subbasin, 3.5 km apart. The meteorological site, midway in between, received 27.6 mm.

Tables 13 to 18 summarize weekly precipitation amounts for each site. Weekly values were adjusted, using the nearest recorded values, to apply to a common weekly interval from Monday midnight to the following Monday midnight. Table 19 summarizes monthly precipitation amounts for each site. Weekly values were similarly adjusted to apply to monthly periods.

Historical summaries

Figures 2 to 5 and Tables 20 to 25 provide historical summaries of precipitation from the ELA meteorological site that are intended to provide data of a more general nature which are useful for comparing yearly totals, extremes, and means. These tables and figures include summaries of:

- monthly precipitation,
- annual precipitation comparing the difference between calendar year and water year as well as breakdown of proportions of rainfall and snowfall for each,
- maximum rainfall intensities,
- greatest rainfall events,
- the number of days each year where precipitation exceeded 25 mm, and
- distribution of rain and snow events according to number of days in specified ranges.

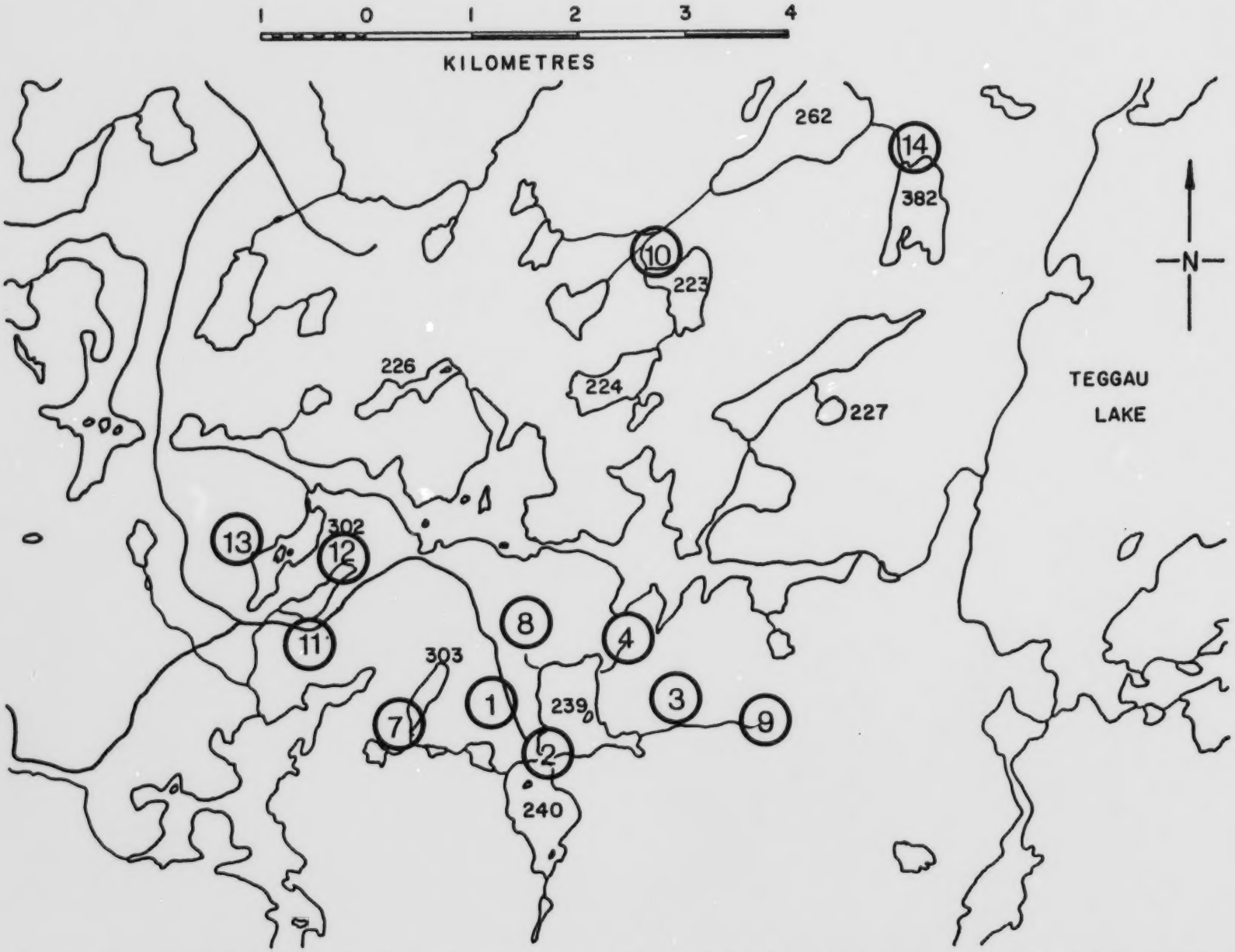


Fig. 1. Location of rain gauge stations used in the Experimental Lakes Area during the 1982 to 1987 period. Station 1 is the meteorological site.

Table 1. Daily precipitation for 1982 from the Rawson Lake meteorological station (Station 1).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.4^{s}	T^{s}	T^{s}	-	-	2.6^{r}	-	4.8	1.0	13.5^{r}	-	-
2	6.1^{s}	-	-	14.9^{m}	-	-	71.0	8.4	1.4	3.5^{r}	1.2^{s}	3.4^{r}
3	-	T^{s}	0.3^{s}	5.3^{s}	1.2^{r}	-	4.6	-	T	3.6^{r}	T^{s}	T^{s}
4	-	-	T^{s}	-	9.2^{r}	-	7.4	-	T	-	-	T^{r}
5	4.7^{s}	-	0.5^{s}	-	-	-	9.1	0.2	-	-	T^{s}	0.4^{s}
6	-	1.0^{s}	-	-	-	15.2^{r}	T	-	1.0	30.1^{r}	-	T^{s}
7	T^{s}	T^{s}	-	-	1.1^{m}	0.8^{r}	-	6.2	0.4	0.4^{r}	T^{s}	0.6^{s}
8	T^{s}	0.2^{s}	-	T^{s}	-	1.0^{r}	-	1.6	-	T^{r}	-	-
9	0.7^{s}	T^{s}	T^{s}	3.6^{s}	2.2^{r}	19.0^{r}	-	-	-	13.3^{r}	-	1.2^{s}
10	1.2^{s}	-	2.0^{s}	T^{s}	3.0^{r}	1.0^{r}	-	-	T	8.0^{r}	6.4^{s}	-
11	-	T^{s}	-	T^{r}	-	-	2.2	-	0.4	1.8^{r}	0.4^{s}	-
12	-	T^{s}	17.6^{s}	-	1.0^{r}	-	7.5	5.8	7.4	0.2^{r}	T^{s}	-
13	T^{s}	T^{s}	0.7^{s}	-	T^{r}	4.8^{r}	0.4	-	0.4	0.2^{r}	T^{s}	T^{s}
14	1.8^{s}	1.3^{s}	T^{s}	-	5.0^{r}	-	-	0.8	T	-	T^{s}	-
15	T^{s}	-	1.0^{s}	11.2^{r}	1.8^{r}	-	2.8	-	-	-	-	-
16	-	7.2^{s}	3.2^{s}	0.8^{r}	6.6^{r}	3.4^{r}	21.6	-	T	3.0^{r}	-	2.7^{s}
17	-	4.2^{s}	2.5^{s}	-	13.5^{r}	-	0.4	-	0.4	1.4^{r}	-	T^{s}
18	3.4^{s}	T^{m}	-	-	6.6^{r}	-	-	4.2	0.6	T^{m}	-	T^{s}
19	-	T^{s}	-	-	0.2^{r}	-	-	-	T	T^{s}	7.6^{r}	2.0^{s}
20	0.4^{s}	-	-	-	-	2.8^{r}	1.0	1.8	-	-	14.6^{m}	T^{s}
21	T^{s}	-	-	-	-	0.4^{r}	-	5.3	-	-	T^{s}	1.8^{s}
22	9.8^{s}	T^{s}	0.7^{s}	-	-	-	0.2	2.8	7.4	-	T^{s}	3.2^{s}
23	0.5^{s}	-	3.8^{s}	-	-	1.0^{r}	19.2	0.9	20.2	-	-	0.4^{s}
24	-	-	1.8^{s}	-	-	T^{r}	-	3.8	T	-	T^{s}	-
25	-	0.5^{s}	-	-	-	-	-	-	T	-	-	-
26	1.5^{s}	-	-	-	-	-	-	-	-	1.0^{r}	-	-
27	T^{s}	-	-	-	-	-	-	-	37.8	1.2^{r}	-	T^{s}
28	1.2^{s}	6.2^{s}	-	-	-	-	2.2	4.4	6.4	0.6^{r}	-	-
29	0.7^{s}		-	1.0^{r}	3.2^{r}	-	2.6	-	-	3.4^{m}	1.0^{s}	-
30	-		11.6^{m}	-	13.5^{r}	-	-	0.8	-	T^{s}	T^{s}	0.6^{s}
31	-		0.8^{s}		9.4^{r}		-	14.3		-		2.0^{s}
TOTAL Rain	-	T	4.8	24.8	76.8	52.0	152.2	66.1	84.8	82.0	14.0	3.4
TOTAL Snow	36.4	20.6	41.7	12.0	0.7	-	-	-	-	3.2	17.2	14.9
TOTAL Precip.	36.4	20.6	46.5	36.8	77.5	52.0	152.2	66.1	84.8	85.2	31.2	18.3

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m. to 08:00 a.m. (CST).
Units are millimetres of water.

Rain	560.9
Snow	146.7
Total	707.6 mm

Table 2. Daily precipitation for 1983 from the Rawson Lake meteorological station (Station 1).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-	0.4^{s}	T^{s}	13.1^{r}	-	-	-	-	-	0.8	-	0.4^{s}
2	T^{s}	-	4.8^{s}	-	-	T	11.4	-	T	0.2	T^{r}	-
3	1.3^{s}	-	T^{s}	-	1.0^{r}	9.2	18.6	-	-	T	-	1.6^{s}
4	0.8^{s}	-	1.8^{r}	-	-	0.2	T	8.0	T	8.0	-	-
5	T^{s}	-	1.4^{r}	-	-	-	-	-	19.6	1.6	T^{r}	0.4^{s}
6	T^{s}	-	2.2^{r}	-	-	-	-	-	-	T	T^{r}	T^{s}
7	0.6^{s}	0.5^{s}	3.6^{r}	-	-	-	-	-	-	-	2.0^{r}	1.1^{s}
8	8.8^{s}	-	4.7^{s}	-	-	0.2	-	-	6.4	T	-	-
9	16.6^{s}	0.4^{s}	-	-	0.2^{r}	-	-	0.8	0.4	T	-	-
10	-	4.6^{s}	-	-	3.4^{r}	-	-	0.2	-	4.4	-	3.8^{s}
11	T^{s}	0.8^{s}	-	-	7.3^{r}	-	-	-	-	0.4	-	1.6^{s}
12	8.0^{s}	-	-	-	10.0^{r}	0.8	-	1.5	0.4	T	6.4^{s}	-
13	4.4^{s}	T^{s}	0.2^{m}	-	0.3^{m}	37.8	-	-	0.2	T	T^{s}	1.0^{s}
14	T^{s}	T^{s}	-	-	-	5.6	-	-	-	-	0.3^{s}	5.8^{s}
15	0.9^{s}	T^{s}	-	-	-	10.0	9.6	-	2.2	3.2	T^{s}	-
16	0.3^{s}	1.2^{r}	-	-	-	-	-	-	T	0.3	-	-
17	-	1.6^{s}	T^{s}	-	4.6^{r}	-	-	7.8	14.6	-	-	-
18	-	7.4^{s}	-	-	-	-	3.6	4.0	T	-	0.2^{r}	-
19	T^{s}	T^{s}	-	-	-	0.8	T	-	-	-	8.8^{s}	-
20	-	1.2^{s}	-	-	-	-	-	18.6	2.6	-	23.9^{s}	2.8^{s}
21	-	T^{s}	-	-	9.1^{r}	13.8	2.2	-	1.2	-	2.4^{s}	3.3^{s}
22	-	-	-	-	0.5^{r}	-	-	-	0.2	-	4.8^{s}	-
23	2.2^{s}	-	-	-	2.1^{r}	-	-	0.4	-	1.4	15.6^{s}	1.2^{s}
24	T^{s}	-	-	-	-	-	-	-	T	2.6	6.4^{s}	0.6^{s}
25	-	-	1.0^{s}	-	-	-	-	0.4	-	-	1.8^{s}	2.1^{s}
26	-	T^{r}	T^{s}	-	-	1.0	T	-	-	-	T^{s}	0.3^{s}
27	-	8.8^{s}	-	-	4.4^{r}	-	1.2	2.8	1.4	T	-	0.6^{s}
28	T^{r}	-	-	4.4^{s}	1.6^{r}	-	4.0	0.2	-	-	3.8^{s}	-
29	1.0^{s}	-	T^{s}	-	1.6^{r}	10.2	T	0.2	4.3	-	2.0^{s}	-
30	T^{s}	-	T^{s}	-	-	1.1	15.8	-	16.8	-	0.4^{s}	-
31	-	-	8.8^{s}	-	-	-	0.4	-	-	-	-	-
TOTAL Rain	T	1.2	9.0	13.1	46.1	90.7	66.8	44.9	70.3	22.9	2.2	-
TOTAL Snow	44.9	25.7	19.5	4.4	T	-	-	-	-	-	76.6	26.6
TOTAL Precip.	44.9	26.9	28.5	17.5	46.1	90.7	66.8	44.9	70.3	22.9	78.8	26.6

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m to 08:00 a.m. (CST).
Units are millimetres of water

Rain	367.2
Snow	197.7
Total	564.9 mm

Table 3. Daily precipitation for 1984 from the Rawson Lake meteorological station (Station I).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	T	0.6^{s}	-	-	-	-	0.2	-	-	-	3.0^{s}	T
2	-	1.3^{s}	-	-	-	-	8.4	-	-	-	-	0.4
3	T	1.4^{s}	T	-	-	-	-	-	1.6	-	T	T
4	1.6	1.8^{s}	0.4	-	-	24.4	4.8	-	1.6	-	0.8^{s}	1.4
5	T	T	-	-	-	0.8	0.4	-	-	-	0.4^{s}	-
6	1.2	-	-	-	12.5^{r}	16.0	-	-	0.2	T	-	-
7	0.6	-	-	-	3.8^{m}	7.4	0.4	-	20.2	T	3.4^{r}	-
8	T	-	-	-	0.6^{s}	14.2	0.2	3.7	7.2	0.2^{r}	-	-
9	-	-	T	-	1.2^{r}	1.4	-	T	3.0	-	-	T
10	-	-	1.1	1.1^{r}	4.8^{r}	-	0.2	T	8.2	-	-	-
11	-	-	-	T	5.4^{r}	4.4	0.4	-	0.4	-	-	2.4
12	0.4	1.4^{s}	0.2	-	-	11.2	10.6	-	4.0	T	-	-
13	-	2.2^{s}	0.6	-	-	T	10.6	6.5	0.8	23.6^{r}	-	T
14	-	-	7.0	-	-	-	0.2	1.4	T	13.0^{r}	-	-
15	5.3	12.0^{s}	-	-	-	2.7	T	-	-	3.6^{m}	T	19.2
16	-	1.4^{r}	-	-	0.4^{r}	T	7.3	T	-	41.8^{s}	-	10.4
17	-	T	-	-	-	1.8	-	-	-	0.6^{r}	-	3.2
18	0.8	-	-	-	1.6^{r}	-	0.4	-	-	17.0^{m}	-	2.1
19	T	-	-	-	0.8^{r}	-	-	-	-	13.0^{r}	-	1.2
20	T	-	-	-	5.2^{r}	-	4.8	14.2	3.4	4.0^{r}	-	0.2
21	-	-	-	-	0.4^{r}	12.2	-	0.7	0.4	4.4^{r}	3.0^{s}	1.8
22	3.7	T	-	-	0.4^{r}	0.2	2.2	T	0.2	0.8^{m}	-	-
23	-	-	0.6	-	2.4^{r}	1.6	-	-	1.4	-	-	-
24	T	-	-	1.6^{r}	-	-	-	-	8.7^{m}	1.5^{m}	-	-
25	-	-	-	-	-	-	0.2	-	0.6^{s}	T	-	-
26	3.2	-	-	8.8^{r}	T	19.0	-	-	2.4^{s}	-	7.6^{r}	0.9^{r}
27	4.8	-	-	10.6^{m}	-	-	-	-	1.4	5.6^{s}	4.8^{s}	0.2
28	T	-	-	5.0^{s}	-	-	-	-	-	0.4^{s}	-	8.7
29	0.8	-	-	T	-	-	3.8	-	-	-	-	0.4
30	0.8		-	T	-	-	8.6	-	-	-	T	-
31			-		0.2^{r}		-	-		12.4^{s}	T	0.4
TOTAL Rain	-	1.4	-	17.7	36.1	117.3	63.7	26.5	60.2	116.8	11.0	0.9
TOTAL Snow	23.2	20.7	9.9	9.4	3.6	-	-	-	5.5	25.1	12.0	52.0
TOTAL Precip.	23.2	22.1	9.9	27.1	39.7	117.3	63.7	26.5	65.7	141.9	23.0	52.9

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m. to 08:00 a.m. (CST).
Units are millimetres of water.

Rain	451.6
Snow	161.4
Total	613.0 mm

Table 4. Daily precipitation for 1985 from the Rawson Lake meteorological station (Station 1).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-	-	-	0.4^{s}	-	0.2	-	-	-	-	0.4^{r}	-
2	-	-	-	1.2^{s}	-	-	-	-	16.4	2.8^{r}	-	-
3	-	-	-	-	17.6	-	0.6	12.8	5.4	0.2^{r}	-	2.8
4	-	-	-	-	4.8	1.0	0.4	1.2	1.6	1.8^{r}	-	1.6
5	-	1.2	-	-	15.4	-	-	T	0.8	1.2^{r}	-	-
6	8.2	-	5.4	0.4^{s}	0.4	3.4	-	1.6	-	1.4^{r}	5.0^{m}	-
7	-	-	-	T^{s}	-	-	0.2	-	-	13.8^{s}	3.0^{s}	T
8	-	0.6	-	T^{s}	1.2	4.7	1.2	-	-	7.3^{m}	-	0.4
9	-	6.0	-	-	-	-	0.2	1.6	-	1.7^{s}	-	1.0
10	1.4	-	-	-	20.2	-	-	T	-	-	-	0.2
11	-	-	-	-	5.9	-	-	1.6	-	1.4^{r}	4.4^{s}	0.2
12	2.0	T	2.6	-	22.6	4.6	3.0	35.6	-	2.0^{r}	-	-
13	2.6	1.0	-	-	-	-	0.8	10.6	-	-	-	-
14	-	-	-	T^{r}	0.8	3.8	0.6	1.4	0.2	1.1^{m}	-	0.6
15	-	2.4	0.1	-	25.0	4.2	-	-	-	2.8^{s}	-	-
16	2.0	0.8	-	-	T	22.0	T	42.4	3.4	0.2^{s}	-	1.0
17	-	T	-	-	-	3.6	6.2	2.9	-	-	2.2^{s}	-
18	-	-	-	-	3.6	-	15.8	1.7	85.8	-	11.4^{s}	-
19	-	-	-	T^{r}	0.6	-	-	-	8.8	-	1.8^{s}	0.4
20	1.2	-	-	-	T	-	T	-	0.8	-	1.2^{s}	-
21	T	T	-	68.0^{r}	-	45.0	-	-	-	-	0.6^{s}	1.9
22	0.2	0.3	-	16.0^{r}	-	2.0	6.0	10.2	0.2	-	2.8^{s}	1.2
23	0.6	-	-	2.9^{r}	-	-	6.3	0.4	5.0	-	1.2^{s}	-
24	-	-	-	13.8^{m}	0.2	6.2	-	-	1.8	0.2^{r}	-	0.2
25	-	8.6	-	3.4^{r}	0.2	5.3	-	-	-	-	6.0^{s}	2.2
26	4.2	-	4.8	-	-	0.5	-	0.4	0.2	-	0.6^{s}	0.4
27	-	-	T	-	-	17.2	-	-	2.6	-	0.4^{s}	0.2
28	1.0	-	0.6	-	0.1	1.0	T	-	1.0	-	1.4^{s}	2.0
29	1.4		-	2.4^{r}	17.6	T	-	-	0.4	-	-	-
30	-		-	-	-	-	-	T	-	-	-	1.4
31	-		-		5.4	0.8	-	5.4		-		-
TOTAL Rain	-	-	-	92.7	141.6	125.5	41.3	129.8	134.4	17.0	3.8	-
TOTAL Snow	24.8	20.9	13.5	15.8	-	-	-	-	-	20.9	38.6	17.7
TOTAL Precip.	24.8	20.9	13.5	108.5	141.6	125.5	41.3	129.8	134.4	37.9	42.4	17.7

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m. to 08:00 a.m. (CST).
Units are millimetres of water.

Rain	686.1
Snow	152.2
Total	838.3 mm

Table 5. Daily precipitation for 1986 from the Rawson Lake meteorological station (Station 1).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-	2.0	2.0	-	-	-	0.2	6.2	18.2	5.8	-	-
2	0.6	0.2	-	1.0	-	0.4	-	7.8	27.6	4.8	0.2	3.4
3	1.0	1.4	T	-	-	-	7.6	1.0	6.0	-	-	3.6
4	1.2	-	3.0	0.6	19.0	-	-	10.8	1.6	1.4	5.8	-
5	-	-	0.3	1.1	2.1	-	36.0	-	-	0.2	-	0.2
6	-	3.6	-	-	1.4	4.8	-	0.6	-	5.0	-	0.2
7	-	1.2	1.4	-	-	-	-	12.1	-	T	19.2	T
8	-	2.0	5.4	-	-	-	-	1.3	-	-	12.2	3.0
9	-	T	-	-	1.3	-	-	3.2	-	-	1.2	2.2
10	-	-	0.4	-	0.4	-	5.8	-	-	3.4	0.8	1.2
11	3.8	T	-	-	-	-	8.2	-	5.0	0.4	0.8	T
12	T	-	-	T	-	0.2	3.0	-	1.4	-	T	-
13	T	0.2	-	-	-	0.4	0.2	-	-	-	0.2	1.8
14	-	0.6	-	-	-	1.2	-	-	-	0.4^{s}	0.4	0.2
15	-	-	-	-	-	5.0	-	25.6	-	-	2.2	T
16	0.6	1.0	1.2	-	-	-	-	-	9.0	-	0.6	-
17	-	1.2	-	-	-	-	0.7	-	3.4	-	-	0.2
18	-	2.6	-	18.2	-	-	-	-	0.6	-	2.2	-
19	-	3.0	-	8.0	-	3.8	7.7	13.1	-	-	5.0	-
20	0.2	-	-	0.2	-	19.3	0.2	-	-	-	0.2	-
21	-	0.2	-	-	-	-	-	-	10.2	-	-	-
22	-	-	0.4	0.8	-	-	-	1.1	2.8	-	3.6	-
23	2.6	-	0.6	-	-	-	5.4	-	-	-	3.8	-
24	8.0	-	0.4	-	-	12.8	-	4.8	4.4	T	0.4	-
25	0.4	3.2	1.8	18.4	-	9.6	-	-	3.0	-	-	T
26	-	0.6	-	2.1	-	0.6	3.2	-	4.4	T	-	-
27	0.2	-	-	29.0	-	-	-	-	1.2	-	-	-
28	0.2	-	-	12.2	-	-	4.3	-	-	-	T	-
29	-		T^{r}	-	-	-	1.4	-	3.2	-	-	T
30	-		-	17.8	3.0	3.8	-	-	-	2.6_{s}	-	1.0
31	0.6		T^{r}		1.7	-	1.9	0.4		0.8^{s}		1.2
TOTAL Rain	-	-	T	109.4	28.9	61.9	85.8	88.0	102.0	23.6	-	-
TOTAL Snow	19.4	23.0	16.9	-	-	-	-	-	-	1.2	58.8	18.2
TOTAL Precip.	19.4	23.0	16.9	109.4	28.9	61.9	85.8	88.0	102.0	24.8	58.8	18.2

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m. to 08:00 a.m. (CST).
Units are millimetres of water.

Rain	499.6
Snow	137.5
Total	637.1

Table 6. Daily precipitation for 1987 from the Rawson Lake meteorological station (Station 1).

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	-	0.2	T^{s}	-	-	12.3	8.9	-	-	1.4^{r}	-	-
2	-	1.0	-	-	-	3.2	0.8	-	-	-	0.2^{r}	-
3	T	0.6	-	-	-	6.0	-	1.1	T	-	2.6^{r}	-
4	-	-	-	-	-	T	-	-	-	5.2^{r}	4.6^{m}	-
5	-	-	-	-	-	0.4	0.2	8.3	0.8	1.2^{r}	-	-
6	-	-	-	-	0.4	3.3	-	4.2	-	0.2^{r}	-	-
7	-	-	0.4^{s}	-	-	-	-	-	2.2	T	-	0.6^{m}
8	T	-	-	-	-	-	-	1.8	-	8.0^{m}	-	1.0^{m}
9	T	-	-	-	-	-	-	-	1.2	-	-	-
10	T	-	T^{s}	-	-	35.4	0.2	-	0.4	-	-	6.0
11	-	-	-	-	-	T	2.9	38.0	3.8	-	-	1.8
12	-	0.2	-	-	-	-	11.7	-	3.2	-	-	1.4
13	-	0.6	-	-	14.2	-	-	-	-	0.2	-	0.4
14	T	-	-	-	T	-	4.2	-	-	-	0.4^{r}	0.4
15	T	-	-	T	2.1	-	3.2	15.6	-	0.2^{r}	10.6^{r}	0.4
16	T	-	-	-	3.0	-	4.1	2.4	-	0.4^{r}	7.6^{s}	0.2
17	1.2	T	-	-	-	-	-	0.2	-	-	-	0.3
18	1.5	0.2	-	-	-	-	7.0	2.4	2.5	0.2^{s}	2.4^{s}	0.4
19	3.4	T	-	-	-	-	6.6	-	T	0.3^{s}	1.0^{s}	-
20	-	T	-	-	33.2	0.8	-	0.2	1.6	0.4^{s}	-	0.9
21	0.4	0.2	-	-	13.7	4.0	6.4	-	-	T	-	T
22	-	2.4	9.8^{r}	-	-	-	0.2	0.2	-	2.0^{s}	-	1.0
23	-	2.4	5.4^{r}	-	-	-	-	1.4	-	0.2^{s}	-	T
24	-	7.8	T	T	-	0.3	-	-	-	-	-	-
25	-	-	0.2^{s}	-	15.2	4.9	1.7	-	-	2.2^{r}	-	-
26	2.6	6.2	0.8^{s}	T	2.8	3.8	-	-	-	5.0^{r}	-	-
27	0.2	0.4	1.2^{s}	-	1.6	-	-	-	0.8	0.6^{r}	T^{s}	-
28	2.2	2.4	-	-	-	-	-	-	6.4	-	T^{s}	T
29	5.2		T^{s}	-	-	0.4	-	8.4	-	-	0.8^{s}	-
30	-		-	-	-	-	8.4	0.2	3.0	-	-	5.0
31	-		1.8^{s}		T		11.4	-		-		-
TOTAL Rain	-	-	15.2	T	86.2	74.8	77.9	84.4	25.9	16.6	18.4	T
TOTAL Snow	16.7	24.6	4.4	-	-	-	-	-	-	11.1	11.8	19.8
TOTAL Precip.	16.7	24.6	19.6	T	86.2	74.8	77.9	84.4	25.9	27.7	30.2	19.8

r = rain s = snow m = mixed
Date refers to precipitation day from 08:00 a.m. to 08:00 a.m. (CST)
Units are millimetres of water.

Rain	399.4
Snow	88.4
Total	487.8

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date 1																									
2																									
3																						1.2	rain		1.2*
4								→					0.4	3.8	0.6	2.0	2.0		0.4						9.2
5																									
6																									
7									0.2						0.2										0.4
8	←			0.7	snow			→																	0.7*
9												0.2													0.2
10						0.4		1.8	0.5	0.8						0.2				0.2	0.4	0.5			4.8
11						0.2																			0.2
12																									
13			0.2	0.4	0.2		0.2																		1.0
14															0.2	0.2	0.6	0.2					0.2		1.4
15	0.2	2.2			1.2						0.8	0.4													4.8
16	0.4		0.2						0.2	1.9	1.6	0.4	1.3	0.4											6.4
17			0.4	0.2	0.2			0.2	1.3									0.4	3.5	3.1	0.4				9.7
18		0.2	0.6	1.4	1.2	1.4					1.3	1.3	1.9	1.3	0.2							0.2		0.2	11.2
19					0.2				0.2																0.4
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29													1.1	2.1											3.2
30																							0.2	0.6	0.8
31	0.2	1.1	3.0	3.1	2.0	1.7	0.9	0.7				3.1	0.2	1.1	0.8			0.4			0.4	0.2	0.8	0.2	19.9

TOTAL 75.3

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

← → indicate the direction and total rainfall or snowfall when hourly recorded values were unavailable.

* indicates that a standard gauge value was used.

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date 1	0.2	0.4	1.2	0.2	0.2			0.5	0.1	0.5		0.2	0.2					0.2	0.3						4.0
2																									
3																									
4																									
5												0.2		0.8			7.0	2.5	3.7	0.8					15.0
6		0.2														0.3		0.5							1.0
7																						0.5			0.5
8	0.3		0.2							0.2	6.8	3.1			0.6	3.1	0.6	1.1	0.4	0.8	1.1	0.2	0.8	0.2	19.5
9																								0.4	0.4
10			0.6																						0.6
11																									
12																0.2	1.8	0.4		0.2	0.2	1.0	1.0		4.8
13																									
14																									
15												0.8			0.6	0.2	1.8								3.4
16																									
17																									
18																									
19																									
20																	2.2			0.2	0.2				2.6
21	0.2										0.2										0.2				0.6
22																									
23																					1.0				1.0
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 53.4

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2														2.4	4.8		2.6	6.9	7.1	6.9	13.1	5.0	5.7	6.7	61.2*
3	7.9	1.7	0.2							0.7	1.4	1.1	1.1				0.3								14.4*
4																									
5	2.0	2.4	0.2			1.5	1.3				0.6	1.3						2.9	0.4		3.7				16.3*
6	0.2																								0.2
7																									
8																									
9																									
10																									
11														2.2											2.2
12																	7.5								7.5
13															0.4										0.4
14																									
15										0.2	1.2	1.2	0.2												2.8
16																									
17		16.2	1.8	3.0	0.6															0.2					21.8
18		0.2																							0.2
19																									
20																									
21	0.8	0.2																							1.0
22																									
23							0.2														0.8	3.2	5.4	6.6	16.2
24	3.2																								3.2
25																									
26																									
27																									
28																									
29		0.6	1.4	0.2														2.6							4.3
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

* indicates values that are from nearby recording rain gauge #7.

TOTAL 152.2

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2			1.1	0.8		1.6	0.9	0.4			2.5		0.2									5.7			13.2
3																									
4																									
5																									0.2
6							0.2									2.1								1.4	3.5
7																0.2				0.5		0.2			4.3
8	0.2				0.8	0.5		1.2					0.7												
9																									
10																									
11																				2.6	3.0			0.2	5.8
12															0.6	0.2									0.8
13																									
14																									
15																									
16																									
17									1.2	1.8	0.2				1.0										4.2
18																									
19															1.8										1.8
20										0.2		1.0	2.1	1.0	0.2	0.4					0.2				5.1
21		0.2													0.4	0.9			0.2	1.1					2.8
22				0.2																					0.2
23							0.3	0.6																	0.9
24				2.1	0.6	0.4	0.7																		3.8
25																									
26																									
27																						1.3	3.1		4.4
28																									
29																									
30							0.8		1.2	0.6	1.0	0.2						0.2							4.0
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 55.0

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1		11.1											0.8				0.2								12.1
2															1.0		0.4								1.4
3																									
4																									
5																									
6																					0.2	0.2	0.4		0.8
7				0.2																					0.2
8							0.4																		0.4
9																									
10																									
11																	0.2	0.2							0.4
12										0.2	0.2				2.3	1.0	1.3	0.8	0.4	1.0	0.2				7.4
13																				0.2	0.2				0.4
14																									
15																									
16																									
17												0.2		0.2											0.4
18																									
19						0.2	0.4																		0.6
20																									
21																									
22																								3.1	3.1
23	3.3				0.4	0.6					15.0	2.2			0.8	0.6	0.6	0.8	0.2						24.5
24																									
25																									
26																									
27															0.2	1.8	3.7	3.0	1.4	1.4	2.4	2.6	3.0	2.2	21.7
28	2.6	3.9	3.4	3.0	3.2						0.5	0.2	0.5				0.2						4.6	0.2	22.3
29	0.2																								0.2
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 95.9

Table 7. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1982

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																					0.4	1.9	1.2	0.4	3.9
2	1.9	1.0	1.7	0.8	0.8	1.4	1.0	1.0		1.3	0.2		0.2		0.2							0.3	0.5		12.3
3	0.8					1.2	2.2	0.2																	4.4
4																									
5																									
6										0.2		0.2				0.2				3.6	6.8	1.5	9.3	4.8	27.1
7	1.0		1.0	0.4	0.4	0.2				0.4															3.4
8															0.2	1.6	0.2					1.2	0.2	0.6	4.0
9																									
10	0.4	2.0	1.6	2.3	0.8	2.0	0.2			2.8		0.5	1.5	0.9		0.7	0.2		0.4		0.2				16.5
11			0.2	0.2			0.2	0.2		0.2						1.0				0.2				0.2	2.4
12		0.2																							0.2
13									0.2	0.2															0.4
14																									
15																									
16						1.1	1.3	0.6																	3.0
17									←					1.4 mm of rain											1.4*
18	→							→																	
19																									
20																									
21																									
22																									
23																									
24																									
25																								0.6	1.0
26											0.4													1.0	1.0
27																									0.6
28	0.2														0.2	0.2									
29		0.1			0.1				0.2												0.2	1.0	0.4	←	2.0
30	→	1.6 mm snow	→	→	→	→	→	→	←	→	→	→	→	→	→	→	T	SNOW	→	→	→	→	→	→	1.6*
31	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	

Notes: Times are central standard (CST).

TOTAL 85.2

All values have been corrected to standard rain gauge values.

← → indicate the direction and total rainfall or snowfall when hourly recorded values were unavailable.

* indicates that a standard gauge value was used.

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3									|◄					1.0						►|				1.0*
4																									
5																									
6																									
7																									
8																									
9																									
10								0.2				0.2	1.4	1.4	0.2						0.2				3.6
11																0.6	0.2	1.4	2.1	2.0	0.4	0.2	0.2		7.1
12				0.2																1.0	3.7	1.6	2.3	0.8	9.6
13	0.6																				0.2	0.1			0.9
14																									
15																									
16																									
17															0.2	0.4	1.4	2.4							4.4
18			0.2																						0.2
19																									
20																									
21																1.6					0.6		0.4	0.6	3.2
22	0.6	0.9	3.0	1.4																					5.9
23							0.5																		0.5
24	0.5	0.2	0.8	0.2	0.2	0.2																			2.1
25																									
26																									
27																									
28						2.3	2.1						0.2												
29				0.4	0.4														0.9					0.6	5.2
30				0.7																					1.7
31																									0.7

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 46.1

◄——► indicate the duration and total rainfall or snowfall when hourly recorded values were unavailable.

* inidcates that a standard gauge value was used.

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									T
2											1.2	1.2	0.2				6.6						0.2		9.2
3																									0.2
4																									
5																									
6																									
7										0.2															0.2
8																									
9																									
10																									
11																									
12																0.2									0.2
13		0.4	0.2								0.6	0.8											5.6	11.4	19.0
14	12.0	6.0	1.0	0.4					0.4		0.4	0.4		0.7	0.7	0.7	1.0	0.4	0.7	0.2					25.0
15													1.2	8.6	0.2										10.0
16																									
17																									
18																									
19																									
20							0.4	0.4																	0.8
21													0.2												0.2
22	0.2	3.5	3.7		3.3	2.7	0.2																		13.6
23																									
24																									
25														1.0											1.0
26																									
27																									
28																			0.4	1.1	2.7	2.7			6.9
29				0.4	0.8	1.3	0.6	0.2	0.1	0.2	0.3														3.9
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 90.2

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1	0.3	0.2																							0.5
2															0.2			0.6	0.2		3.1	2.6	2.9	1.4	11.0
3	0.2					0.2																	0.7	9.0	10.1
4	3.9	0.6		0.2	0.4	1.4	2.4																		8.9
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16						5.0	3.4	1.2																	9.6
17																									
18																	3.6								3.6
19																									
20																									
21																									
22			2.2																						2.2
23																									
24																									
25																									
26																									
27									0.2		0.6														0.8
28								0.4	3.3	0.7															4.4
29																									
30											1.5														
31					0.4	0.4	2.2	0.8							0.4					0.8	3.7	4.3	1.7		12.0
																									4.2

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 67.3

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									8.0
5			8.0																						
6																									
7																									
8																									
9																									
10					0.4	0.4									0.2										1.0
11																									
12																									
13			1.5																						1.5
14																									
15																									
16																									
17																						0.4	7.2	0.2	7.8
18																								1.9	1.9
19	1.9				0.2																				2.1
20																			0.2	3.1	6.2	1.0			10.5
21			1.4	3.4	0.8		2.5																		8.1
22																									
23																							0.4		0.4
24																									
25																								0.2	0.2
26						0.2																			0.2
27															1.7	0.9									2.6
28				0.2																					0.2
29			0.2																						0.2
30					0.2																				0.2
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 44.9

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																2.3	1.5	8.8	2.9	0.6			1.0		17.1
6	2.5																								2.5
7																									
8																2.7	0.7	0.4	0.2	0.2	1.3	0.7	0.2		6.4
9																									
10					0.2	0.2																			0.4
11																									
12														0.4											0.4
13													0.2												0.2
14																									
15										0.3					0.3	0.3	0.3	0.7	0.3						2.2
16																									
17																5.7	6.7	0.2	0.2	0.2	0.6	0.6	0.4		14.6
18																									
19																									
20											0.2	0.2			1.9			0.2		0.8	0.2				2.6
21														0.2											0.2
22				0.4	0.2	0.2		0.2																	1.0
23							0.2																		0.2
24																									
25																									
26																									
27																									
28					1.2	0.2																			1.4
29																									
30				1.3	0.4	2.2	0.2	0.2	0.4					0.2	0.4			0.6	2.1	0.8	1.9	2.1	1.2	0.2	14.2
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 63.4

Table 8. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1983

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1		0.2		0.2	0.4	5.1	0.8	0.2		0.2								0.2							7.3
2				0.2			0.2																		0.4
3			0.2																						0.2
4																		0.6	0.2	0.4	0.2			2.1	3.5
5	2.3	1.2	0.6	0.2	0.2									0.6	0.2		0.6			0.2					6.1
6																									
7																									
8																									
9																									
10												0.6	0.9		0.2	0.7	0.6	0.4		0.2	0.2		0.2		4.0
11			0.4									0.2	0.2												0.8
12																									
13																									
14																									
15																	0.7	0.9		0.4	0.2	0.2	0.2	0.2	2.8
16		0.2				0.2												0.1	0.2						0.7
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25								0.2	1.4	1.6	0.6	0.2													4.0
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 29.8

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: APRIL Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																			←					1.1	1.1*
11	—	—	—	—	—	—	—	→																	
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																			←					1.6	1.6*
25	—	—	—	—	—	—	—	→																	
26													1.1	0.2	0.2	0.7	0.7	0.2		0.2		0.6	2.6	2.3	8.8
27										0.8				1.8	3.5	0.8	0.2			3.1				0.2	10.4
28		0.2							←	—	—	—	5.0	snow	—	—	→								5.2
29																									
30																									
31																									

TOTAL 27.1

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

←— 1.1 —→ recorded values unavailable, arrow indicates time over which precipitation occurred.

* recording gauge inoperative, standard gauge value used.

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6														0.2		0.2	0.4	0.4	0.8	2.3	0.2	0.2	0.2	0.8	5.7
7	1.0	2.0	1.2	1.0	1.4			0.2	←1.1→				0.8	snow								3.0	snow		10.6
8								→		0.6															0.6
9																									
10				0.2			1.0	0.2					0.7	2.1			1.2								5.4
11			0.2	0.2				0.2	0.4	0.2	0.7	0.2	2.3	0.7			0.7	0.2							6.0
12																									
13																									
14																									
15																									
16													0.4												0.4
17																									
18																	1.4								1.4
19								0.2	0.3	0.3						0.2									1.0
20																		0.6	0.4	0.4			0.8	1.0	3.2
21	1.0	1.0																0.4							2.4
22															0.2	0.2									0.4
23																									
24			2.0	0.4																					2.4
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

←—— 1.1 ——→| recorded values unavailable, arrow indicates time over which precipitation occurred.

TOTAL 39.5

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1								0.2																	0.2
2																									
3																									
4																			0.2	2.0	0.8	3.0	8.6	2.8	17.4
5	0.4	3.4	0.8	0.2	0.4	1.4	0.2	0.2							0.4										7.4
6						0.2	0.2		0.2	0.6			0.2	0.4							8.2	5.2	0.2	1.0	16.4
7																									
8				0.4	2.7	2.0	0.4	1.7	1.0	1.5	1.5	1.3	4.1		0.2		1.3								16.1
9				0.2	0.9	1.5	0.9		1.2	0.2															4.9
10																									
11																					0.6	0.2	0.2		1.0
12								1.7	1.7												1.0	6.2	1.2	1.4	13.2
13	0.4	0.2	0.6	0.2																					1.4
14																									
15														0.2							2.3		0.2		2.7
16																									
17										0.4	0.2	0.8			0.4										1.8
18																									
19																									
20																									
21															1.3	0.6		5.9	2.3	1.3		0.6	0.2		12.2
22																									
23								0.2					0.4	0.6	0.6										1.8
24																									
25																									
26									1.6	0.2		1.8	2.7	0.6	4.8	1.4	0.8	3.3	1.8						19.0
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 117.5

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1												0.2													0.2
2																7.8	0.4	0.2							8.4
3															0.2				3.8	0.2					4.2
4								0.6							0.4										1.0
5																					0.4				0.4
6																				0.2					0.2
7																									
8																0.2							0.4		0.2
9																									
10																									
11													0.2					0.2	0.4	2.7	2.3	1.0	1.0	1.2	9.0
12																									
13	1.4	0.2							0.2																1.8
14		9.8	0.6																						10.4
15							0.2																		0.2
16												6.7													6.7
17	0.2	0.4																							0.6
18																				0.2	0.2				0.4
19																									
20																									
21				3.9		0.2	0.5	0.2						2.0			0.2								4.8
22																									2.2
23																									
24																									
25																									
26				0.2																					0.2
27																									
28																									
29																			0.7						0.7
30		0.4	1.9	0.2	0.2	0.4								2.4	2.2	0.2						2.4	1.4		11.7
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 63.7

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9	3.5		0.2																						3.7
10																									
11																									
12																									
13																									
14	5.7		0.8														0.4	0.6	0.4						7.9
15																									
16																									
17																									
18																									
19																									
20											1.5	5.0	2.3	2.9	1.7	0.4	0.2								14.0
21					0.2																	0.5	0.2		0.9
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 26.5

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																		0.9	0.5				0.2		1.6
3												0.2			0.2	1.0									1.4
4					0.2																				0.2
5																									
6								0.2	0.2	0.2	0.8	0.2	0.4	0.4					0.4	11.5	5.9				20.2
7			0.2							0.6	0.2	1.0	1.5	0.2	1.3			0.2						0.2	5.4
8			0.8			0.2						0.4	2.2	0.4											5.0
9	0.6	0.4								0.6	0.6			1.1	0.6			3.6	1.1	0.6					8.2
10																									
11												0.2	0.9	0.2	0.9	0.4		0.2	0.4		0.2		0.2		4.0
12	0.4			0.2				0.2																	0.4
13			0.2	0.6																					0.8
14																									
15																									
16																									
17																									
18																									
19																									
20																									3.8
21				0.8	1.4		0.8	0.8																	0.2
22						0.2																			
23					0.1		0.5	0.8	1.4	1.7	0.7	1.1	1.1	0.4	0.4	1.1	0.4			0.4					10.1
24										0.3		0.1					0.1								0.5
25								0.1				0.2		0.3	0.2	0.2	1.3								2.3
26							0.2					0.9		0.3											1.4
27	0.2																								0.2
28																									
29																									
30																									
31																									

TOTAL 65.7

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

Precipitation on 24, 25, 26 and 27 is partly snow.

Table 9. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1984

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9								0.2																	0.2
10																									
11																									
12																									
13															2.5	1.8	0.2		0.2		0.8	0.2	2.1	0.8	8.6
14	3.5	4.3	0.6	0.8	0.6	2.2	1.6	1.4	1.7	0.9			0.2	0.7	1.1	1.7	0.2	1.3	2.6	2.2	0.4				28.0
15																					1.2	1.2	0.2	1.0	3.6
16																0.2	2.0	3.8	1.2	1.8	3.4	1.6	3.6	5.3	22.9
17	8.1	5.2	1.4	0.6	3.0	0.2	0.2	0.2	←					0.6					→						19.5
18										0.2							2.3	0.6	0.6				0.2	0.2	4.1
19	0.4			1.2	1.8	2.1	2.5	4.9	3.2	2.8	2.3	0.5	0.2		0.2				0.2		0.2	0.2	0.2		22.9
20			0.2	0.5	0.2	0.7	0.7	0.7	0.6	0.9	0.4	0.7	0.4	0.2			0.2	0.2							6.6
21	0.2	0.2														0.2		0.2	0.2	0.2		0.2	0.2	0.4	2.0
22	0.4	0.4	0.6	0.8	0.4	0.2			←				0.8	rain and snow				→							3.6
23																									
24									←				0.8	rain and snow					→						0.8
25	—	—	0.7	snow	—	—	—	→																	0.7
26																									
27																		←	—	—					
28	—	5.6	snow	—	—	—	—	→															←	—	5.6
29	—	—	0.4	snow	—	—	—	→																	0.4
30																									
31																		←	—	—	12.4	snow	—	→	12.4

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

|←— 1.1 —→| recorded values unavailable, arrow indicates time over which precipitation occurred.

TOTAL 141.9

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																			0.8	0.6	0.2	0.6	1.6	0.2	22.2
4	4.3	3.7	5.3	2.7			1.4	0.2																	0.2
5							0.2							7.3	5.3			0.4							15.8
6	1.5	0.4	0.7	0.2																1.2					1.2
7																									
8																					0.4	3.3	7.9	2.0	13.2
9																	2.3	0.5	1.3	0.2					12.5
10																5.8	4.7	6.3	2.3	1.9	0.2		0.7	0.2	23.0
11		1.8		0.7	1.8	2.0		0.7	1.2											0.2					0.2
12		0.2	0.2																						
13																									
14																									
15						0.2		0.4	2.1		1.9	2.9	3.1	3.1	1.0	1.2	1.2	1.4	1.6	1.9	1.0	0.4	0.6	1.9	25.0
16	0.6																								0.6
17																				3.6					3.6
18																							0.2		0.2
19																									0.4
20	0.2						0.2																		
21																									
22																									
23																									0.2
24									0.2																0.2
25											0.2														0.2
26																									
27																									
28									0.1																0.1
29									1.8	1.6	2.3	0.8	4.1	1.8	0.8	0.8	0.3	1.0	0.6	0.4	0.4	0.2		0.2	17.6
30																									
31											0.2													0.2	0.4

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 136.6

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1					0.2	3.7	1.1																0.2		5.2
2																									
3																									
4															0.2			0.3	0.3						0.8
5					0.2																				0.2
6												0.8	2.4	0.2											3.4
7																									
8										0.2	2.5	0.2												1.2	4.1
9																									
10	0.2		0.2				0.2																		0.6
11																									
12													1.1	0.2			3.3								4.6
13																									
14																									
15				0.2		0.2	2.5	0.9	0.2	0.9	1.1	0.4	0.2	0.8			0.4								7.8
16						0.2								19.6	0.8										20.6
17			0.4	0.6	0.4	0.2				1.0	0.2						0.2	1.2	0.2	0.4	0.2	0.2			5.2
18																									
19																									
20																									
21														0.8	4.9	1.4	0.2	1.0	5.9	1.6	0.6	0.8	13.3	6.3	36.8
22	5.1	2.7	0.4									0.2	0.2							0.3		1.0	0.3		10.2
23																									
24																									
25					2.3	3.3	0.6													0.2	1.0	2.9	0.2		10.5
26		0.2	0.2	0.2	0.2	0.2																			1.0
27							0.5		0.2			0.2	0.9	4.6	4.2	0.5	1.5	1.8	0.7				1.3	0.2	16.6
28	0.2	0.2	0.2	0.5											0.2	0.2								0.2	1.7
29					0.2	0.2																			0.4
30														0.6				0.2							0.8
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 130.5

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																				0.6					0.6
3															0.4										0.4
4																									
5																									
6																				0.2					0.2
7																									
8					0.8	0.4																0.2			1.4
9																									
10																									
11																									
12				0.4	2.6					0.4	0.2							0.4	0.4						3.8
13																									0.6
14																									
15																									
16																									
17			0.6		0.4	2.6	2.6											6.7		0.4	8.5				21.8
18	0.2																								0.2
19																									
20																									
21																									
22						0.7			5.3	2.6	2.6	1.1													12.3
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 41.3

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																								0.4	0.4
4	2.9	4.8	3.7	0.2		0.4	0.4						0.5	0.3	0.2										13.4
5					0.2																				0.2
6																1.6									1.6
7																									
8																									
9									0.2				0.2	1.2											1.6
10																									
11						0.3	0.5	0.8																	1.6
12											1.4	0.4		0.4	1.4	1.0	3.6	11.7	5.5	2.2	1.6	0.4			29.6
13	0.2	1.2	1.0	0.8	1.6	0.6	0.2	0.4		0.2	0.2	0.4	0.6				0.4	2.1		1.5	0.4	1.2		0.2	13.2
14		0.4	0.8	0.8	0.8	0.4	0.2					0.2			0.2			0.2	0.6						4.6
15			0.2																						0.2
16																									
17	3.7	6.7	6.5	1.8	15.0	5.5	1.4	0.2						0.2				0.4		0.2				1.6	1.6
18	0.8	1.1	0.2						0.2	0.2			0.4				0.2	0.5		0.2					41.6
19																									3.8
20																									
21																									
22											0.8		6.6	1.0	1.6										10.0
23		0.2											0.2												0.4
24					0.2																				0.2
25																									
26														0.2									0.2		0.4
27																									
28																									
29																									
30																									
31										4.8	0.2					0.2									5.2

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 129.6

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1						0.2																			0.2
2											0.7	1.1	1.4		0.9	0.7	6.6	4.6			0.2				16.2
3			0.2																						0.2
4			0.2		0.6	2.5	2.1		0.2					0.2	1.2										7.0
5																					0.8				0.8
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14															0.2										0.2
15																									
16										0.9	0.4	1.9	0.2												3.4
17																									
18																									
19				0.2	14.7	45.5	8.0	16.8	0.6	0.9	0.2	2.2	1.8		0.2		0.2	0.5	0.7				0.5	0.2	93.2
20	0.2				0.4	0.2	0.2	0.4			0.4			0.4											2.2
21																									
22																									
23	0.2														0.4	0.2	0.8	0.2	0.2		1.1	0.9	0.2		4.2
24					0.2	0.2	0.4		0.2	0.2		0.5	0.3		0.5	0.3									2.8
25																									
26																									
27							0.2							0.2	0.2	0.2				0.2	0.3	0.5	0.2		2.0
28	0.2		0.2	0.2				0.2			0.4			0.3		0.4				0.3					1.8
29																									0.4
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 134.6

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																					0.6	1.4	0.6		2.6
3	0.2						0.2																		0.2
4																									0.2
5	0.2		0.2			0.4	1.0								0.2		0.2								2.2
6					0.2	0.2	0.4					0.2	0.2		0.8			0.2							2.2
7														13.8 mm Snow											
8														7.3 mm Snow											22.8
9														1.7 mm Snow											
10																									
11																									
12					0.4		0.2	0.6	0.4		0.8	0.8													3.2
13			0.2																						0.2
14														1.1 mm Snow											1.1
15														2.8 mm Snow											2.8
16														0.2 mm Snow											0.2
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24										0.2															0.2
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 37.9

← → recorded values unavailable, arrow indicates time over which indicated value occurred.

Table 10. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: NOVEMBER Year: 1985

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1												0.2	0.2												0.4
2																									
3																									
4																			0.6			0.6	1.2	0.6	3.0
5																									0.4
6	0.4																								
7											GAUGE DISCONTINUED FOR SEASON														
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: APRIL Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23		FIRST CHART OF SEASON APRIL 23, 1986																							
24																									
25																		0.4	0.6	3.3	3.6	3.6	1.8		13.3
26	1.6	1.9	0.4	0.2	0.6	0.2	0.2												0.3	0.3					5.7
27					0.3			0.7	0.5	0.7		0.4				0.4	2.7	4.5	2.3	6.7	4.5	0.9	0.7		25.3
28				0.2	2.3	1.4	0.4	0.9	1.0	1.0	3.5	2.2	1.0	0.2	1.4	1.0	0.5	0.2		0.2					17.4
29																									
30													0.4	2.9	2.5	0.7	0.2	0.2	1.6	2.5	1.8	2.0	1.4	1.6	17.8
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

( ) brackets imply that total is for less than a full month record.

TOTAL (79.5)

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																				1.0	0.2			1.2	2.4
4																									
5	5.6	6.8	1.9	2.1	0.2																				16.6
6						0.8	0.5	0.8	0.2					0.2		0.8				0.2					3.5
7																									
8																									
9												1.0							0.3						1.3
10																									
11							0.4																		0.4
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31							0.4	1.4		1.2													0.4	1.3	4.7

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 28.9

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3						0.2	0.2																		0.4
4																									
5																									
6																								1.8	1.8
7	0.2	1.0	1.8																						3.0
8																									
9																									
10																									
11																									
12																		0.2							0.2
13																		0.4							0.4
14																									
15		0.2	0.4		0.2	0.2	0.2										1.3	0.9	0.6	2.0			0.2		6.2
16																									
17																									
18																									
19																									
20				1.1	2.3	0.4			0.2	4.0	3.4	5.0		1.4	3.1	1.4				0.2					22.5
21						0.2			0.4																0.6
22																									
23																									
24																									
25							10.4	2.4																	12.8
26								9.2	1.0																10.2
27																									
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 58.1

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1	←	—	—	3.8	—	—	—	→	0.2																4.0
2																				0.4	5.1	2.1			7.6
3																									
4				2.6	24.8		4.8	0.8						2.6	0.4										36.0
5																									
6																									
7																									
8																									
9																									
10																								0.6	0.6
11		1.2	1.0	0.6	1.6	0.2		0.6		2.2	3.6	0.7	0.9	0.2		0.2	0.2		0.2						13.4
12										0.7	1.2	0.7			0.2						0.2				3.0
13																									
14				0.2																					0.2
15																									
16																									
17															0.7										0.7
18																									
19																		2.5	3.3		0.2	0.2	1.5		7.7
20															0.2										0.2
21																									
22																									
23									4.4		0.8	0.2													5.4
24																									
25																									
26																					1.5	0.4			1.9
27						0.2	0.7	0.4																	1.3
28																4.3									4.3
29										0.2										0.2					0.4
30																									
31																					1.1			0.8	1.9

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 88.6

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1												5.4	0.2								0.4				6.0
2		0.2											0.8						5.7	1.3					8.0
3																									
4								1.0						9.2	1.4										11.6
5	0.2																								0.2
6																									
7					0.6						6.0							5.5		0.2				0.2	12.5
8						0.2																			0.2
9											1.3	0.9					1.6			0.5					4.3
10						0.2																			0.2
11																									
12																									
13																									
14																									
15																				1.3			17.0	7.3	25.6
16																									
17																									
18																									
19														12.7											12.7
20		0.4																							0.4
21																									
22											0.8	0.3													1.1
23																									
24																								3.4	3.4
25	1.0	0.2		0.2																					1.4
26																									
27																									
28																									
29																									
30																									
31																				0.4					0.4

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 88.0

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1986

* Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2			0.9	7.4	3.0	3.7	3.2							0.2	0.4	0.2	0.8	1.0		0.6	1.6	2.0		0.4	25.4
3		0.4	0.6	1.0	3.5	4.4	5.8	5.6	1.5	2.7	0.3		0.6												26.4
4																				0.2			0.5	0.5	1.2
5		0.2	0.2																						0.4
6																									
7																									
8																									
9																									
10																									
11																									
12			1.0	0.2	1.4	1.0	1.4					0.3	0.9			0.2									6.4
13																									
14																									
15																									
16																									
17			1.1	0.4	0.7	1.1	1.3	4.4	0.8							2.2					0.2	0.2			12.4
18													0.3												0.3
19			0.3																						0.3
20																									
21																			2.2	1.3	4.1	0.7			8.3
22	0.2	0.4	0.7	0.4														2.6				0.2			4.5
23																									
24																									
25							0.4	2.4	2.8	1.8															7.4
26																		1.0	0.9		0.5	0.3		0.3	3.0
27	0.3		0.5	0.3		0.3						0.6		0.2	0.4										2.6
28																									
29																	0.8	0.8	0.2		1.2				3.0
30	0.2																								0.2
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 102.0

Table 11. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1986

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2				0.6	0.6	0.8	1.8	1.8	1.4	1.6	0.6	0.2	0.2					0.6	0.2					0.2	10.6
3																									
4																0.2	0.8		0.2	0.2					1.4
5																									
6										0.2	0.2														0.4
7					3.6	1.2																			4.8
8																									
9																									
10											0.2	0.6	0.4	0.4	0.8	0.2	0.2								2.8
11			0.2	0.4												0.4									1.0
12																									
13																									
14														0.4	Snow										0.4
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31	1.0						0.2									0.8	Snow						0.6	0.8	1.4
																									2.0

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 24.8

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: MAY Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									0.4
6									0.4																
7																									
8																									
9																									
10																									
11																									
12																									
13										1.1	4.7	4.9	0.4	1.9				0.6	0.4	0.2					14.2
14																									
15																									
16								0.6	2.3	0.7		0.2	1.1	0.2											5.1
17																									
18																									
19																									
20																0.2	1.2	0.2	1.2	0.4	0.6		0.4	1.0	5.2
21	1.9	6.9	4.2	2.8	4.6	3.1	1.7	1.3	1.5	2.1	1.5	1.5	1.7	1.9	2.1	2.3	0.6								41.7
22																									
23																									
24																									
25																	0.2	0.8	0.4	0.4	0.6	0.2	0.2	0.4	3.2
26	2.3	5.3	2.5	1.3	0.2		0.2	0.2													0.4				12.4
27							2.4		1.4				0.2												4.0
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 86.2

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JUNE Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1											0.2	6.2	3.2	2.1	0.2							0.4			12.3
2														0.9								1.1	0.2		2.2
3			0.2		0.6	0.2																			1.0
4				1.6	1.6	2.2	0.6																		6.0
5																									
6						0.2		0.2	0.6	2.3	0.4														3.7
7																									
8																									
9																									
10																			0.6	1.6	1.0	7.5	11.1	6.7	28.5
11	6.1	0.2		0.2	0.2		0.2																		6.9
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21					0.8														0.2	0.6	3.0				4.6
22		0.2																							0.2
23																									
24																0.3									0.3
25											0.2			0.6		0.6									1.4
26				0.2	1.5	1.0	0.8	0.4	0.8	0.8	0.2	0.4	1.2												7.3
27																									
28																									
29														0.4											0.4
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 74.8

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: JULY Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date													0.8	0.6	1.7	0.4	1.3	2.3	1.2	0.4				0.2	8.9
1													0.2					0.6							0.8
2																									
3																								0.2	0.2
4																									
5																									
6																									
7																									
8																									
9																									
10														0.5		0.5	1.1				0.2		0.2		2.5
11																									12.3
12	0.2	0.2					0.2	0.2	6.5	4.6	0.4														
13															0.4	1.1	2.1	0.4						0.2	4.2
14																								3.2	3.2
15																			1.8	2.3					4.1
16																									
17																0.6				2.5	3.3	0.4			6.8
18						0.2					2.4	3.8			0.2										6.6
19				0.2																					0.2
20																					0.2				0.2
21																									6.4
22			0.4		2.0		0.6	3.2			0.2														
23																									
24															1.7										1.7
25																									
26																									
27																									
28																									
29																									
30																									
31			0.8	1.0	0.8	2.0	1.6	2.2	4.0	4.8	1.0	1.2		0.2											19.6

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 77.7

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: AUGUST Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1						0.2																			0.2
2																									
3																0.2		0.5	0.2						0.9
4							0.2																		0.2
5																						2.4	3.4	0.2	6.0
6	0.8		1.5									0.8		3.4											6.5
7																									
8																			1.0		0.2	0.6			1.8
9																									
10																									
11													0.4	4.2	29.4	1.0			2.6			0.2			37.8
12			0.2																						0.2
13																									
14																									
15																	0.6	3.9	3.9	6.8	0.2		0.2		15.6
16																									
17				0.2	0.2	1.0	0.6	0.4																0.2	2.6
18														1.7	0.5		0.2								2.4
19																									
20																									
21					0.2																				0.2
22											0.2														0.2
23													0.2	0.2	0.2		0.6	0.2							1.4
24																									
25																									
26																									
27																									
28																									
29																		5.6		0.2	1.1	0.4			7.3
30			0.9	0.2														0.2							1.3
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 84.6

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: SEPTEMBER Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																					0.6	0.2			0.8
5																									
6																	0.2	1.0	0.6	0.2					2.0
7					0.2																				0.2
8																									
9			0.2	0.4	0.2	0.4		0.2																	1.4
10						0.2										3.6	0.2								4.0
11										1.5	0.2		0.9	0.6											3.2
12																									
13																									
14																									
15																									
16																									
17																									
18																				0.9	0.5	0.4	0.7		2.5
19																									
20															0.2	0.4	1.0								1.6
21																									
22																									
23																									
24																									
25																									
26																									
27																0.2									0.2
28								0.8	0.2								4.6	0.8	0.2		0.2				6.8
29	0.2																								0.2
30																			0.2	2.0	0.8				3.0
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

TOTAL 25.9

Table 12. Recording rain gauge data for the Experimental Lakes Area.

Station: Met. Site, Station #1 Gauge: Tipping Bucket Month: OCTOBER Year: 1987

Corrected hourly precipitation amounts (mm)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1												0.2	0.2		0.8	0.2									1.4
2																									
3																									
4																									
5	0.2		0.2	0.7			1.3	0.2	0.2					0.3	0.3				0.2		0.2	0.9	0.9	0.6	2.6
6																	0.2				0.2				3.8
7									←				Trace of Snow					→							0.2
8																			←						T
9		8.0 mm Snow						→																	8.0
10																									
11																									
12																									
13												0.2													0.2
14																									
15																									
16						0.2			0.2																0.4
17								0.2																	0.2
18																						←			
19		0.2 mm Snow						→	←					0.3 mm Snow											0.5
20								→	←					0.4 mm Snow				→							0.4
21																									
22									←										2.0 mm Snow						2.0
23								→	←				0.2 mm Snow		→										0.2
24																									
25																									
26						0.2	1.0	1.0	2.2	1.6	0.6				0.4										7.0
27						0.2			←	0.6 mm Snow								→							0.8
28																									
29																									
30																									
31																									

Notes: Times are central standard (CST).

All values have been corrected to standard rain gauge values.

→ recorded values unavailable, arrow indicates time over which indicated value occurred.

TOTAL 27.7

Table 13. Precipitation data in millimetres for 1982 from standard weekly rain gauges in the Experimental Lakes Area. All values have been corrected using recorded hourly rainfall records at stations 1, 3, 7, 10 and 11 to apply to the same time interval.

Period		Rain Gauge Station										
Start	End	1*c	2c	3*c	3*p	4p	7*c	8*c	9c	10*p	11*p	12c
May 4	May 10	13.7	15.1	14.3	x	15.6	10.6	x	14.8	x	x	x
May 11	May 17	21.6	19.5	21.6	x	25.0	22.8	23.3	25.1	x	29.8	28.8
May 18	May 24	10.1	11.4	9.6	x	11.2	10.6	9.9	9.6	x	M	11.4
May 25	May 31	22.7	22.2	21.9	x	21.8	22.4	22.6	23.2	21.7	25.4	22.3
Jun 1	Jun 7	18.4	21.2	18.2	x	22.5	M	19.8	16.0	25.1	21.1	20.9
Jun 8	Jun 14	24.1	22.6	22.9	x	24.8	24.6	25.4	24.4	28.7	26.6	27.9
Jun 15	Jun 21	4.8	5.3	4.3	x	6.6	9.4	4.1	0	4.4	10.8	7.6
Jun 22	Jun 28	0.6	0.6	0.2	x	1.2	0.8	0	0.9	0.2	0.6	0
Jun 29	Jul 5	92.4	87.6	82.0	x	92.6	92.9	94.5	M	107.0	102.2	104.7
Jul 6	Jul 12	11.4	8.6	6.4	x	1.6	9.2	3.3	1.0	2.1	5.1	4.4
Jul 13	Jul 19	24.5	25.4	24.4	x	24.4	24.6	25.1	22.9	13.3	24.0	17.1
Jul 20	Jul 26	19.3	19.3	17.8	19.4	20.8	19.0	19.6	21.1	24.8	22.2	21.8
Jul 27	Aug 2	15.8	20.6	16.3	17.6	18.2	15.0	16.5	19.0	17.0	14.7	13.2
Aug 3	Aug 9	6.9	8.1	7.4	8.8	8.6	6.9	6.6	7.6	6.8	6.4	5.8
Aug 10	Aug 16	6.1	7.1	5.8	6.4	7.6	6.6	6.9	6.4	9.2	9.6	8.1
Aug 17	Aug 23	11.0	M	11.5	13.5	14.5	11.7	13.0	12.8	14.7	16.6	14.7
Aug 24	Aug 30	8.4	8.2	8.3	8.0	10.1	8.3	8.3	10.1	10.5	10.4	10.7
Aug 31	Sep 6	16.9	19.4	14.5	16.0	17.7	18.1	14.9	↑	↑	18.2	x
Sep 7	Sep 13	7.6	7.8	7.0	8.2	8.4	7.8	x	21.6	27.0	9.2	x
Sep 14	Sep 20	0.5	1.5	1.3	2.0	2.5	1.5	x	x	2.0	3.0	x
Sep 21	Sep 27	46.9	53.5	72.3	73.3	57.4	40.5	x	x	x	36.2	x
Sep 28	Oct 4	40.5	37.2	34.4	35.4	37.5	40.5	x	x	x	44.8	x
Oct 5	Oct 11	51.4	47.8	50.1	51.4	51.6	x	x	x	x	54.1	x
Oct 12	Oct 18	3.8	4.0	2.7	3.6	4.2	x	x	x	x	x	x

Gauges were read either on Monday afternoons or Tuesday mornings.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

M indicates a missing value.

x implies gauge not in service.

* indicates that a tipping bucket recording gauge is located next to the standard gauge.

p indicates a plastic type B standard gauge.

c indicates a copper standard rain gauge.

↑ means that the value directly below the arrow is the total for the period indicated.

Table 14. Precipitation data in millimetres for 1983 from a standard weekly rain gauge network in the Experimental Lakes Area. All values have been adjusted using recorded hourly rainfall records at stations 1, 3, 7 and 11 to apply to the same time period.

Period		Rain Gauge Station							
Start	End	1*p	2c	3*c	3*p	4p	4p**	7*c	11*p
May 3	May 9	1.2	x	x	x	x	x	x	x
May 10	May 16	21.0	20.0	x	x	20.2	x	x	x
May 17	May 23	14.2	↑	9.6	10.7	15.3	x	x	14.6
May 24	May 30	9.7	↑	8.4	9.9	10.0	x	x	9.5
May 31	Jun 6	9.4	30.6	5.3	6.4	6.8	x	x	13.7
Jun 7	Jun 13	19.4	19.1	18.8	19.8	21.0	20.4	x	25.2
Jun 14	Jun 20	35.8	33.5	25.1	27.0	31.4	29.4	39.9	44.2
Jun 21	Jun 27	14.8	12.8	11.4	13.0	14.4	13.6	12.2	15.0
Jun 28	Jul 4	41.3	40.3	37.8	39.1	41.3	41.0	40.4	49.0
Jul 5	Jul 11	0	0	0	0	0	0	0	0
Jul 12	Jul 18	13.2	13.5	11.9	12.4	10.8	18.1	10.2	9.8
Jul 19	Jul 25	5.8	1.5	4.1	x	2.0	2.2	2.0	3.8
Jul 26	Aug 1	21.4	20.3	18.0	x	21.2	21.0	20.6	26.6
Aug 2	Aug 8	8.0	8.9	5.3	x	7.0	7.0	7.6	9.4
Aug 9	Aug 15	2.5	2.3	1.5	x	4.0	4.4	2.5	6.0
Aug 16	Aug 22	30.4	32.0	31.5	x	31.0	33.8	28.7	30.0
Aug 23	Aug 29	3.8	2.5	1.0	x	4.0	4.0	2.5	4.3
Aug 30	Sep 5	17.3	17.0	18.3	x	19.8	19.5	18.0	25.4
Sep 6	Sep 12	9.7	10.1	10.6	11.0	10.0	10.9	7.6	9.2
Sep 13	Sep 19	17.0	15.9	16.0	15.7	18.7	18.4	14.1	18.2
Sep 20	Sep 26	4.0	2.8	2.7	4.2	5.0	5.2	2.9	3.6
Sep 27	Oct 3	23.5	22.0	22.2	22.6	23.6	25.6	22.1	26.8
Oct 4	Oct 10	13.6	10.9	13.2	13.4	15.2	14.2	14.7	14.4
Oct 11	Oct 17	4.3	x	x	x	5.2	5.6	x	x
Oct 18	Oct 24	4.0	x	x	x	x	4.1	x	x

Gauges were read either on Monday afternoons or Tuesday mornings except for rain gauge 1 which was read twice daily.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

x implies gauge not in service.

* implies that a tipping bucket recording rain gauge is located next to the standard gauge.

** a second gauge was operated this year only, 350 m NE of station 4p in the NE Subbasin.

p indicates a plastic type B standard gauge.

c indicates a copper standard rain gauge.

$\overline{\uparrow}$ means that the value directly below the arrow is the total for the period indicated.

Table 15. Precipitation data in millimetres for 1984 from a standard weekly rain gauge network in the Experimental Lakes Area. All values have been adjusted using recorded hourly rainfall records at stations 1, 3, 7 and 11 to apply to the same time period.

Period		Rain Gauge Station						
Start	End	1*p	2c	3*p	3c	4p	7*c	11*p
May 1	May 7	15.0	x	x	x	x	x	x
May 8	May 14	13.3	x	x	x	12.5	x	x
May 15	May 21	8.4	7.2	x	x	9.0	x	x
May 22	May 28	2.8	2.4	x	x	3.3	x	x
May 29	Jun 4	17.6	16.1	14.6	x	17.6	14.6	17.0
Jun 5	Jun 11	47.8	37.4	40.4	45.2	42.8	47.3	48.2
Jun 12	Jun 18	19.1	18.4	20.8	19.9	19.4	16.6	20.0
Jun 19	Jun 25	14.0	13.2	17.0	16.2	14.8	13.9	M
Jun 26	Jul 2	27.6	24.1	26.8	24.9	25.6	26.2	29.8
Jul 3	Jul 9	5.8	4.8	4.8	2.8	4.8	6.3	11.8
Jul 10	Jul 16	28.8	26.2	27.5	26.2	25.5	M	29.8
Jul 17	Jul 23	7.9	5.6	8.7	7.6	7.8	7.8	6.8
Jul 24	Jul 30	12.4	11.6	12.0	x	12.6	10.7	12.2
Jul 31	Aug 6	0	0	0	x	0.4	0	0
Aug 7	Aug 13	3.7	2.5	4.5	x	6.5	3.3	6.2
Aug 14	Aug 20	21.7	20.9	21.7	x	22.2	20.8	21.8
Aug 21	Aug 27	1.1	1.0	0.8	x	1.0	2.2	2.0
Aug 28	Sep 3	1.6	1.6	0.8	x	1.6	1.6	1.6
Sep 4	Sep 10	40.4	27.5	20.4	x	26.1	34.8	31.2
Sep 11	Sep 17	5.2	7.3	3.2	x	6.1	5.2	5.0
Sep 18	Sep 24	14.1	10.5	12.5	x	13.1	11.8	12.5
Sep 25	Oct 1	4.4	4.7	5.3	x	5.7	5.0	5.5
Oct 2	Oct 8	0.0	0.3	0.2	x	0.3	0.2	0.2
Oct 9	Oct 15	40.4	39.6	x	x	38.2	37.8	38.4
Oct 16	Oct 22	85.2	x	x	x	x	x	x
Oct 23	Oct 29	7.5	x	x	x	x	x	x

Gauges were read either on Monday afternoons or Tuesday mornings except for rain gauge 1 which was read twice daily.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

x implies gauge not in service.

* implies that a tipping bucket recording rain gauge is located next to the standard gauge.

p indicates a plastic type B standard rain gauge.

c indicates a copper standard rain gauge was used.

M indicates a missing value.

Table 16. Precipitation data in millimetres for 1985 from a standard weekly rain gauge network in the Experimental Lakes Area. All values have been adjusted using recorded hourly rainfall records at stations 1, 3, 7 and 11 to apply to the same time period.

Period		Rain Gauge Station					
Start	End	1*	2	3*	4	7*	11*
Apr 30	May 6	38.2	x	x	x	x	x
May 7	May 13	49.9	41.2	59.6	49.5	48.1	49.2
May 14	May 20	30.0	31.1	30.3	31.8	30.5	31.3
May 21	May 27	0.4	0	0	0.7	0.8	0.5
May 28	Jun 3	23.3	22.5	21.8	23.6	23.6	25.2
Jun 4	Jun 10	9.1	9.6	9.8	8.8	9.2	9.6
Jun 11	Jun 17	38.2	37.8	37.8	36.4	42.6	38.2
Jun 18	Jun 24	49.0	51.8	B	45.6	46.6	43.4
Jun 25	Jul 1	31.0	26.4	36.3	33.8	28.6	31.0
Jul 2	Jul 8	1.2	0.6	1.4	1.4	0.8	1.0
Jul 9	Jul 15	5.8	5.8	6.4	6.2	6.4	5.8
Jul 16	Jul 22	22.0	16.9	18.3	31.0	12.7	18.7
Jul 23	Jul 29	12.3	10.3	12.5	12.4	12.8	16.0
Jul 30	Aug 5	14.0	12.2	12.2	12.6	15.3	17.8
Aug 6	Aug 12	34.4	28.8	B	32.4	30.4	32.4
Aug 13	Aug 19	65.0	63.8	65.4	61.0	68.8	74.8
Aug 20	Aug 26	11.0	12.2	9.6	11.8	16.0	13.2
Aug 27	Sep 2	21.6	22.4	21.8	22.8	22.0	22.5
Sep 3	Sep 9	8.0	7.8	6.4	7.4	8.6	8.8
Sep 10	Sep 16	3.6	3.8	3.6	4.0	4.4	4.4
Sep 17	Sep 23	99.6	86.8	92.2	101.5	88.2	76.5
Sep 24	Sep 30	7.0	6.7	5.9	6.8	6.9	8.0

Gauges were read either on Monday afternoons or Tuesday mornings except for rain gauge 1 which was read twice daily.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

x implies gauge not in service.

* implies that a tipping bucket recording rain gauge is located next to the standard gauge.

B implies a missing value caused by a bear.

All standard gauges were AES standard type B white plastic rain gauges.

Table 17. Precipitation data in millimetres for 1986 from a standard weekly rain gauge network in the Experimental Lakes Area. All values have been adjusted using recorded hourly rainfall records at stations 1, 3, 7 and 11 to apply to the same time period.

Period		Rain Gauge Station						
Start	End	1*	2	3*	4	7*	11*	13
Apr 22	Apr 28	62.5	x	x	†	x	x	x
Apr 29	May 05	36.8	x	x	104.5	x	x	x
May 6	May 12	5.2	x	x	4.9	4.5	x	x
May 13	May 19	0	0	x	0	0	x	x
May 20	May 26	0	0	0	0	0	0	x
May 27	Jun 2	4.7	4.0	4.2	4.7	4.4	4.8	x
Jun 3	Jun 9	5.2	4.4	4.0	4.6	5.0	4.8	x
Jun 10	Jun 16	6.8	7.7	7.8	8.0	7.6	6.6	x
Jun 17	Jun 23	23.1	23.2	21.8	21.3	21.4	21.4	x
Jun 24	Jun 30	23.0	21.0	20.2	20.8	23.8	22.6	x
Jul 1	Jul 7	43.6	36.8	36.6	38.4	51.2	46.2	x
Jul 8	Jul 14	17.2	16.0	15.0	17.2	15.8	17.8	x
Jul 15	Jul 21	8.6	9.4	6.0	6.5	13.8	10.8	8.8
Jul 22	Jul 28	12.9	7.2	5.9	7.4	8.0	11.0	10.8
Jul 29	Aug 4	28.9	28.8	24.2	26.6	26.2	26.2	22.4
Aug 5	Aug 11	17.4	16.2	14.9	13.6	18.4	14.3	9.8
Aug 12	Aug 18	25.6	24.9	24.5	25.0	27.8	23.4	19.2
Aug 19	Aug 25	19.0	16.8	15.8	17.4	21.4	24.2	21.8
Aug 26	Sep 1	0.4	1.6	0.8	1.4	0	0.7	0
Sep 2	Sep 8	53.4	50.6	64.0	54.2	53.2	67.4	73.0
Sep 9	Sep 15	6.4	6.6	6.8	7.6	6.8	6.8	8.0
Sep 16	Sep 22	26.0	26.0	24.0	24.6	26.4	26.2	25.8
Sep 23	Sep 29	16.0	15.2	15.2	17.8	14.2	18.6	17.4
Sep 30	Oct 6	13.8	12.4	13.3	13.2	13.7	15.4	13.0
Oct 7	Oct 13	8.8	x	x	9.0	x	x	x
Oct 14	Oct 20	0.4	x	x	x	x	x	x
Oct 21	Oct 27	0	x	x	x	x	x	x
Oct 28	Nov 3	3.6	x	x	x	x	x	x

Gauges were read either on Monday afternoons or Tuesday mornings except for rain gauge 1 which was read twice daily.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

x implies gauge not in service

* implies that a tipping bucket recording rain gauge is located next to the standard gauge.

All standard gauges were AES standard type B white plastic rain gauges

Table 18. Precipitation data in millimetres for 1987 from a standard weekly rain gauge network in the Experimental Lakes Area. All values have been adjusted using recorded hourly rainfall records at stations 1, 3, 7, 11 and 13 to apply to the same time period.

Period		Rain Gauge Station								
Start	End	1*	2	3*	4	7*	10	11*	13*	14
Apr 21	Apr 27	T	x	x	x	x	x	x	x	x
Apr 28	May 4	0	0	0	0	0	x	0	0	x
May 5	May 11	0.4	0.3	0.4	0.7	0.4	x	0.4	0.5	x
May 12	May 18	19.3	16.6	15.1	17.7	23.6	x	19.6	26.0	x
May 19	May 25	50.1	M	48.0	51.8	50.2	x	50.5	51.2	x
May 26	Jun 1	28.7	30.2	28.4	28.4	27.0	x	27.1	23.0	x
Jun 2	Jun 8	12.9	12.8	↑	12.8	13.4	11.2	10.9	14.6	x
Jun 9	Jun 15	35.4	34.6	45.2	38.8	32.5	24.4	35.1	32.6	26.6
Jun 16	Jun 22	4.8	6.7	5.0	4.2	6.6	2.7	6.5	7.2	2.3
Jun 23	Jun 29	9.4	9.0	14.8	14.0	11.3	17.8	11.9	13.5	21.0
Jun 30	Jul 6	9.9	9.4	7.3	9.4	8.6	8.4	10.0	8.8	9.2
Jul 7	Jul 13	14.8	11.0	14.0	14.4	15.7	19.4	17.9	18.4	18.1
Jul 14	Jul 20	25.1	27.6	27.9	28.0	24.2	19.5	22.4	20.7	23.4
Jul 21	Jul 27	8.3	9.4	8.5	8.2	8.4	20.6	9.8	9.7	14.6
Jul 28	Aug 3	20.9	21.1	19.8	20.8	20.1	20.9	19.7	21.4	19.0
Aug 4	Aug 10	14.5	12.9	10.9	13.2	13.9	13.7	13.3	12.7	11.1
Aug 11	Aug 17	56.2	53.6	48.0	58.4	55.7	55.0	73.4	86.0	78.2
Aug 18	Aug 24	4.2	3.4	4.2	6.0	4.4	3.4	4.7	4.3	3.4
Aug 25	Aug 31	8.6	9.8	8.8	9.7	10.7	9.2	13.4	13.2	5.8
Sep 1	Sep 7	2.8	3.8	3.6	3.8	1.2	1.2	1.3	1.4	1.3
Sep 8	Sep 14	8.8	12.8	16.5	13.6	14.2	8.0	10.4	11.2	7.0
Sep 15	Sep 21	4.1	4.4	3.5	4.6	4.6	↑	4.7	4.6	4.2
Sep 22	Sep 28	7.0	6.4	4.2	5.4	7.6	10.6	8.4	7.0	3.2
Sep 29	Oct 5	11.0	4.5	10.4	11.4	12.8	7.4	14.2	12.2	9.8
Oct 6	Oct 12	8.2	7.4	5.0	9.0	8.6	11.0	10.0	12.2	10.6
Oct 13	Oct 19	1.3	x	x	x	x	x	x	x	x
Oct 20	Oct 26	9.6	x	x	x	x	x	x	x	x
Oct 27	Nov 2	1.0	x	x	x	x	x	x	x	x

Gauges were read either on Monday afternoons or Tuesday mornings except for rain gauge 1 which was read twice daily.

Rainfall values have been adjusted to apply to a standard weekly interval from 0:00 hrs of the start date to 24:00 hrs of the end date above, (Monday midnight to Monday midnight, central standard time, CST).

x implies gauge not in service.

* implies that a tipping bucket recording rain gauge is located next to the standard gauge.

M implies a value that was missing.

All standard gauges were AES standard type B white plastic rain gauges.

Table 19. Monthly precipitation values in millimetres for the 1982 to 1987 period from the standard rain gauge network in the Experimental Lakes Area. All values are from weekly readings and have been adjusted using recorded hourly rainfall records at stations 1, 3, 7, 10, 11 and 13 to apply to the same monthly time interval.

Rain Gauge	Code	May	Jun	Jul	Aug	Sep	Oct
1982							
1	c,r	67.6	48.4	136.9	47.8	89.8	79.4
1	p,r,d	75.3	53.4	152.2	55.0	95.9	85.2
2	c	68.1	50.0	145.7	54.8	100.1	72.7
3	c,r	67.7	45.3	135.4	47.2	114.6	70.9
3	p,r	x	x	x	53.5	118.0	74.9
4	p	73.7	55.0	144.2	57.2	105.5	77.0
7	c,r	71.6	52.5	150.5	46.3	87.6	x
8	c	71.0	49.1	147.3	51.0	x	x
9	c	72.9	41.1	M	54.1	x	x
10	p,r	x	58.4	152.0	53.6	x	x
11	p,r	104.1	58.8	157.7	57.5	85.1	87.6
12	c	x	56.1	151.3	53.2	x	x
1983							
1	p,r,d	46.1	90.2	70.9	44.9	63.4	29.8
2	c	42.2	85.6	64.8	45.9	59.7	x
3	p,r	x	76.8	64.3	x	63.0	x
3	c,r	x	71.2	61.0	39.5	61.7	x
4	p	46.5	84.4	64.5	46.2	69.3	32.0
7	c,r	x	91.7	62.4	41.5	56.6	x
11	p,r	46.6	108.9	78.4	49.9	75.1	x
13	p	x	83.6	71.5	49.4	71.5	35.8
1984							
1	p,r,d	39.5	117.5	63.5	26.5	65.7	68.8
2	p	x	100.6	56.8	24.4	51.6	x
3	p,r	x	111.0	61.6	27.0	42.4	x
4	p	39.2	111.6	59.3	30.1	52.6	x
7	p,r	x	110.0	62.1	26.3	58.4	x
11	p,r	x	120.4	69.2	30.6	55.8	x
1985							
1	p,r,d	136.6	130.5	41.3	129.6	134.6	x
2	p	124.2	130.8	33.6	123.0	121.5	x
3	p,r	144.7	136.1	38.6	127.0	124.5	x
4	p	138.6	129.8	51.0	124.2	136.1	x
7	p,r	136.0	132.2	32.7	136.1	124.5	x
11	p,r	139.2	127.4	41.5	144.3	114.1	x
1986							
1	p,r,d	28.9	58.1	88.6	88.0	102.0	24.8
2	p	x	56.5	75.8	80.5	99.8	24.6
3	p,r	x	53.8	70.1	73.2	110.6	25.5
4	p	33.8	54.7	76.1	76.4	105.4	25.8
7	p,r	x	57.8	95.4	87.6	100.4	25.9
11	p,r	x	60.4	92.2	81.9	119.5	27.6
14	p	x	x	x	77.8	124.0	25.2
1987							
1	p,r,d	86.2	74.8	77.7	84.6	25.9	27.7
2	p	M	75.4	77.4	80.8	27.6	x
3	p,r	79.7	76.8	76.8	73.0	30.2	x
4	p	85.0	83.4	79.7	88.4	30.6	x
7	p,r	89.0	76.0	75.9	85.8	31.0	x
10	p	x	68.4	87.7	82.4	23.0	x
11	p,r	85.5	76.7	80.9	105.9	28.6	x
13	p,r	90.1	78.5	77.9	117.3	26.8	x
14	p	x	75.3	83.2	99.6	18.9	x

Gauges were read either on Monday afternoons or Tuesday mornings.

Rainfall values were adjusted to represent monthly time periods by using the recorded rain gauges (r).

x implies a gauge not in service.

M indicates a missing value.

p indicates a plastic type B standard gauge; white; introduced in 1978.

c indicates a copper standard gauge; old style pre 1978.

r indicates a station which also had a tipping bucket recording gauge.

d indicates a station which was read daily instead of weekly.

Table 20. Historical precipitation summary for ELA from 1969 to 1987.

YEAR	PRECIP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	RAIN							130.3	134.4	92.4	50.5	2.3	0.0	
	SNOW							0.0	0.0	0.0	3.6	20.3	36.8	
	TOTAL							130.3	134.4	92.4	54.1	22.6	36.8	
1970	RAIN	0.0	0.0	0.0	39.9	73.7	87.9	66.0	65.5	136.6	70.1	0.0	4.6	544.3
	SNOW	31.5	28.2	91.2	102.9	16.5	0.0	0.0	0.0	0.0	56.9	40.1	55.3	422.9
	TOTAL	31.5	28.2	91.2	142.8	90.2	87.9	66.0	65.5	136.6	127.0	40.4	59.9	967.2
1971	RAIN	0.0	0.0	0.0	20.3	62.7	150.6	98.9	56.4	128.0	77.2	3.9	0.0	597.9
	SNOW	21.3	17.5	41.4	39.4	0.0	0.0	0.0	0.0	0.0	18.8	61.0	23.8	223.2
	TOTAL	21.3	17.5	41.4	59.7	62.7	150.6	98.9	56.4	128.0	96.0	64.9	23.8	811.1
1972	RAIN	0.0	0.0	2.0	9.4	52.0	67.6	147.1	116.8	100.6	27.7	22.4	0.0	546.9
	SNOW	30.0	22.6	32.5	2.8	0.0	0.0	0.0	0.0	5.6	5.3	37.0	25.9	162.0
	TOTAL	30.0	22.6	34.5	12.2	52.0	67.6	147.1	116.8	106.2	33.0	60.7	25.9	708.9
1973	RAIN	0.0	0.0	0.0	31.8	46.7	94.0	134.1	95.5	131.1	63.7	8.4	0.0	605.3
	SNOW	5.8	23.6	41.6	16.0	0.0	0.0	0.0	0.0	0.0	2.3	38.9	22.1	150.2
	TOTAL	5.8	23.6	41.6	47.8	46.7	94.0	134.1	95.5	131.1	66.0	47.2	22.1	755.5
1974	RAIN	0.0	0.0	0.0	50.0	98.7	68.6	39.6	160.8	47.5	31.8	0.0	0.0	487.0
	SNOW	39.9	27.4	25.4	43.5	0.5	0.0	0.0	0.0	2.5	6.6	29.0	21.3	196.1
	TOTAL	39.9	27.4	25.4	93.5	89.2	68.6	39.6	160.8	50.0	38.4	29.0	21.3	683.1
1975	RAIN	0.0	0.0	0.0	19.6	61.2	146.0	37.3	95.8	70.9	40.6	0.2	0.0	471.6
	SNOW	70.1	30.5	49.5	1.5	0.0	0.0	0.0	0.0	0.0	17.8	20.6	26.2	216.2
	TOTAL	70.1	30.5	49.5	21.1	61.2	146.0	37.3	95.8	70.9	58.4	20.8	26.2	687.8
1976	RAIN	0.0	0.0	6.6	38.3	15.0	130.0	19.6	81.0	29.0	10.7	0.0	0.0	330.2
	SNOW	40.1	24.4	34.4	4.1	4.6	0.0	0.0	0.0	0.0	15.2	13.0	30.0	165.8
	TOTAL	40.1	24.4	41.0	42.4	19.6	130.0	19.6	81.0	29.0	25.9	13.0	30.0	496.0
1977	RAIN	0.0	0.0	19.6	7.1	132.8	141.0	74.9	78.5	87.6	18.5	9.4	3.3	572.7
	SNOW	29.5	39.6	24.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	169.9	33.8	301.2
	TOTAL	29.5	39.6	43.7	11.4	132.8	141.0	74.9	78.5	87.6	18.5	179.3	37.1	873.9
1978	RAIN	0.0	0.0	0.0	21.3	108.2	47.2	99.8	100.6	66.5	20.6	1.2	0.8	466.3
	SNOW	19.8	10.4	35.6	18.3	0.0	0.0	0.0	0.0	0.0	2.3	49.0	29.7	165.1
	TOTAL	19.8	10.4	35.6	39.6	108.2	47.2	99.8	100.6	66.5	22.9	50.3	30.5	631.4
1979	RAIN	0.0	0.0	10.7	37.4	76.3	57.3	22.6	54.4	37.3	101.2	2.0	0.0	399.7
	SNOW	10.2	30.7	40.4	5.8	0.8	0.0	0.0	0.0	0.0	1.6	43.8	23.6	156.9
	TOTAL	10.2	30.7	51.1	43.2	77.1	57.3	22.6	54.4	37.3	102.8	45.3	23.6	556.6
1980	RAIN	0.0	0.0	0.0	0.0	24.0	60.8	93.4	102.7	77.9	41.2	0.8	0.0	400.8
	SNOW	38.8	19.6	25.6	8.4	1.0	0.0	0.0	0.0	0.0	15.8	21.2	28.7	159.1
	TOTAL	38.8	19.6	25.6	8.4	25.0	60.8	93.4	102.7	77.9	57.0	22.0	28.7	559.9
1981	RAIN	0.0	0.4	13.9	11.7	17.4	161.3	108.5	30.9	141.6	40.4	12.6	0.0	538.7
	SNOW	10.1	3.0	8.8	4.1	2.0	0.0	0.0	0.0	17.4	14.3	20.4	23.8	103.9
	TOTAL	10.1	3.4	22.7	15.8	19.4	161.3	108.5	30.9	159.0	54.7	33.0	23.8	642.6
1982	RAIN	0.0	0.0	4.8	24.8	76.8	52.0	152.2	66.1	84.8	82.0	14.0	3.4	560.9
	SNOW	36.4	20.6	41.7	12.0	0.7	0.0	0.0	0.0	0.0	3.2	17.2	14.9	146.7
	TOTAL	36.4	20.6	46.5	36.8	77.5	52.0	152.2	66.1	84.8	85.2	31.2	18.3	707.6
1983	RAIN	0.0	1.2	9.0	13.1	46.1	90.7	66.8	44.9	70.3	22.9	2.2	0.0	367.2
	SNOW	44.9	25.7	19.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	76.6	26.6	197.7
	TOTAL	44.9	26.9	28.5	17.5	46.1	90.7	66.8	44.9	70.3	22.9	78.8	26.6	564.9
1984	RAIN	0.0	1.4	0.0	17.7	36.1	117.3	63.7	26.5	60.2	116.8	11.0	0.9	451.6
	SNOW	23.2	20.7	9.9	9.4	3.6	0.0	0.0	0.0	5.5	25.1	12.0	52.0	161.4
	TOTAL	23.2	22.1	9.9	27.1	39.7	117.3	63.7	26.5	65.7	141.9	23.0	52.9	613.0
1985	RAIN	0.0	0.0	0.0	92.7	141.6	125.5	41.3	129.8	134.4	17.0	3.8	0.0	686.1
	SNOW	24.8	20.9	13.5	15.8	0.0	0.0	0.0	0.0	0.0	20.9	38.6	17.7	152.2
	TOTAL	24.8	20.9	13.5	108.5	141.6	125.5	41.3	129.8	134.4	37.9	42.4	17.7	838.3
1986	RAIN	0.0	0.0	0.0	109.4	28.9	61.9	85.8	88.0	102.0	23.6	0.0	0.0	499.6
	SNOW	19.4	23.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	58.8	18.2	137.5
	TOTAL	19.4	23.0	16.9	109.4	28.9	61.9	85.8	88.0	102.0	24.8	58.8	18.2	637.1
1987	RAIN	0.0	0.0	15.2	0.0	86.2	74.8	77.9	84.4	25.9	16.6	18.4	0.0	399.4
	SNOW	16.7	24.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.8	19.8	88.4
	TOTAL	16.7	24.6	19.6	0.0	86.2	74.8	77.9	84.4	25.9	27.7	30.2	19.8	487.8
MEAN	RAIN	0.0	0.2	4.5	30.3	65.3	96.4	81.6	84.9	85.5	46.0	6.0	0.7	495.4
	SNOW	28.5	22.9	30.9	16.3	1.6	0.0	0.0	0.0	1.6	11.7	41.0	27.9	183.7
	TOTAL	28.5	23.1	35.5	46.5	66.9	96.4	81.6	84.9	87.2	57.6	47.0	28.6	679.0
	MAX	70.1	39.6	91.2	142.8	141.6	161.3	152.2	160.8	159.0	141.9	179.3	59.9	967.2
	MIN	5.8	3.4	9.9	0.0	19.4	47.2	19.6	26.5	25.9	18.5	13.0	17.7	487.8
	N	18.0	18.0	18.0	18.0	18.0	18.0	19.0	19.0	19.0	19.0	19.0	19.0	18.0

Table 21. Summary of annual precipitation from the Rawson Lake meteorological station for the 18 year period 1970 to 1987.

	CALENDAR YEAR (Jan-Dec)					WATER YEAR (Nov-Oct)				
	Rain (mm)	(%)	Snow (mm)	(%)	Total (mm)	Rain (mm)	(%)	Snow (mm)	(%)	Total (mm)
1970	544.3	(56)	422.9	(44)	967.2	542.0	(58)	384.3	(42)	926.3
1971	588.0	(72)	223.3	(28)	811.3	588.7	(72)	234.2	(28)	822.9
1972	546.9	(77)	162.0	(23)	708.9	527.3	(74)	183.6	(26)	710.9
1973	605.3	(80)	150.4	(20)	755.7	620.3	(80)	152.6	(20)	772.9
1974	486.9	(71)	196.1	(29)	683.0	495.3	(70)	206.8	(30)	702.1
1975	471.7	(69)	216.1	(31)	687.8	471.4	(68)	219.7	(32)	691.1
1976	330.2	(67)	165.8	(33)	496.0	330.4	(66)	169.4	(34)	499.8
1977	572.8	(66)	301.2	(34)	874.0	560.1	(80)	140.5	(20)	700.6
1978	466.3	(74)	165.1	(26)	631.4	477.0	(62)	290.1	(38)	767.1
1979	399.7	(72)	156.9	(28)	556.6	399.7	(70)	168.2	(30)	567.9
1980	400.8	(72)	159.1	(28)	559.9	402.0	(70)	176.6	(30)	578.6
1981	538.7	(84)	103.9	(16)	642.6	526.9	(83)	109.6	(17)	636.5
1982	560.9	(79)	146.7	(21)	707.6	556.1	(78)	158.8	(22)	714.9
1983	367.2	(65)	197.7	(35)	564.9	382.4	(75)	126.6	(25)	509.0
1984	451.6	(74)	161.4	(26)	613.0	441.9	(69)	200.6	(31)	642.5
1985	686.1	(82)	152.2	(18)	838.3	694.2	(81)	159.9	(19)	854.1
1986	499.6	(78)	137.5	(22)	637.1	503.4	(81)	116.8	(19)	620.2
1987	399.4	(82)	88.4	(18)	487.8	381.0	(74)	133.8	(26)	514.8
MEAN	495.4	(73)	183.7	(27)	679.0	494.4	(73)	185.1	(27)	679.6
Max	686.1		422.9		967.2	694.2		384.3		926.3
Year	1985		1970		1970	1985		1970		1970
Min	330.2		88.4		487.8	330.4		109.6		499.8
Year	1976		1987		1987	1976		1981		1976

NOTES:
1. Rainfall is in millimetres measured in a standard rain gauge.
2. Snowfall is expressed as point depth water equivalent in millimetres measured in a AES Nipher shielded snow gauge.
3. Rain and snow as percentage of the total precipitation are shown in brackets.

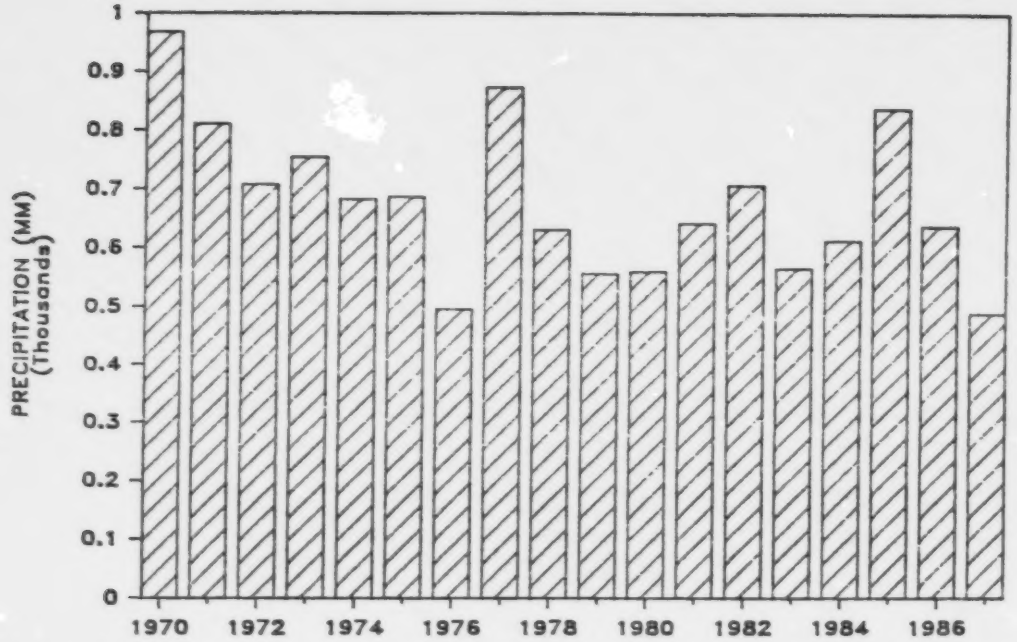


Fig. 2. Annual precipitation totals for the 18 year period 1970 to 1987 (calendar year) for the Experimental Lakes Area.

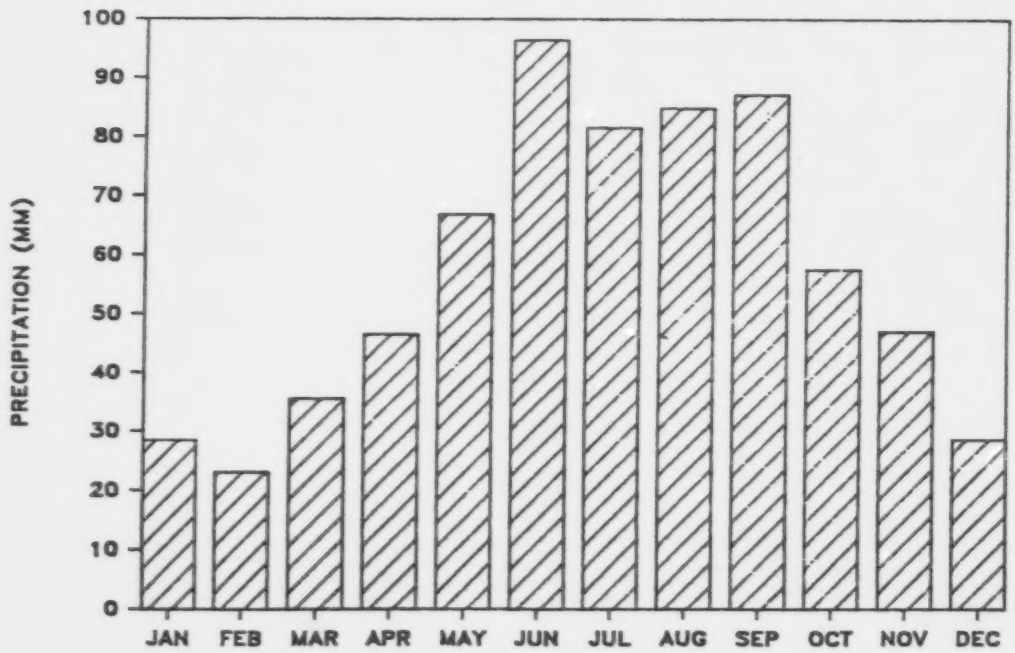


Fig. 3. Mean monthly total precipitation for the 18 year period 1970 to 1987 for the Experimental Lakes Area.

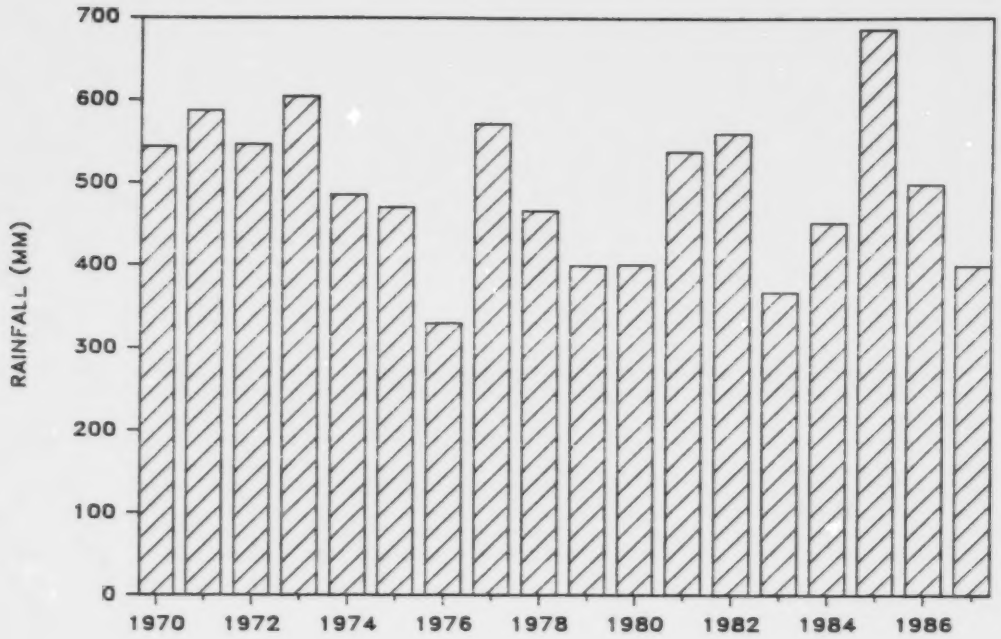


Fig. 4. Annual rainfall totals for the 18 year period 1970 to 1987 (calendar year) for the Experimental Lakes Area.

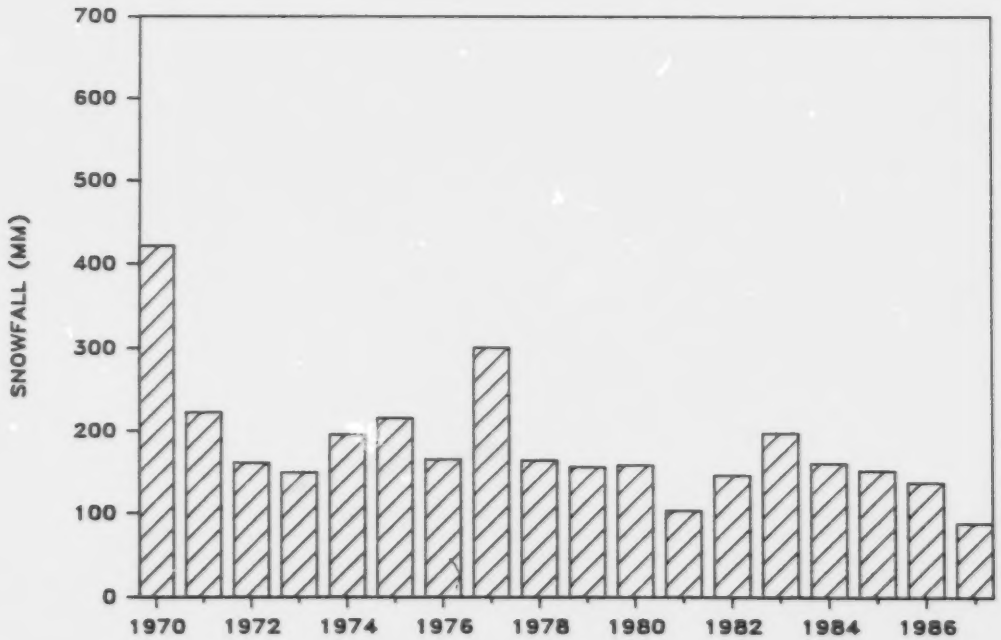


Fig. 5. Annual snowfall water equivalent totals for the 18 year period 1970 to 1987 (calendar year) for the Experimental Lakes Area.

Table 22. Summary of rainfall intensity data for the Experimental Lakes Area for the 6 year period from 1982 to 1987. Values presented are the maximum for each month.

	Corrected amount of rainfall in millimetres for the durations indicated								
	5 min	10 min	15 min	30 min	60 min	120 min	6 hr	12 hr	24 hr
1982									
May	2.8	3.6	3.6	4.0	4.4	6.7	11.5	15.8	20.3
Jun	1.8	2.7	3.7	5.4	7.0	10.0	11.0	17.7	19.5
Jul	7.3	9.0	11.8	14.7	16.5	20.5	46.4	70.4	75.3
Aug	5.9	9.4	10.2	10.6	11.2	11.2	11.2	11.4	13.2
Sep	4.9	6.5	9.8	13.3	15.9	17.2	19.5	33.6	39.0
Oct	2.2	2.8	3.4	5.4	9.6	14.4	27.3	29.3	30.3
1983									
May	1.0	1.4	1.8	3.4	3.8	6.1	10.0	10.0	10.2
Jun	3.2	6.0	11.2	14.2	19.4	33.4	36.4	36.9	42.0
Jul	3.7	5.8	6.9	9.2	9.4	13.3	15.0	18.6	18.6
Aug	0.8	1.2	1.9	3.5	6.4	9.5	10.5	18.6	18.6
Sep	4.2	4.6	5.4	7.1	9.4	11.7	16.1	19.6	19.6
Oct	0.6	0.8	1.2	1.8	2.5	4.9	6.6	8.0	9.4
1984									
May	0.7	0.9	1.2	1.8	2.5	3.2	7.5	11.5	12.5
Jun	3.8	6.1	6.9	7.9	10.5	13.5	19.0	24.2	24.8
Jul	4.2	6.7	8.1	9.4	10.2	10.4	10.4	10.4	11.7
Aug	2.2	3.8	4.2	5.6	6.5	6.5	13.8	14.0	14.2
Sep	4.7	8.4	9.2	16.1	16.9	17.7	17.7	19.8	20.4
Oct	1.2	2.2	2.4	4.6	8.1	13.9	24.2	39.0	42.2
1985									
May	2.3	3.3	4.3	6.6	9.0	15.3	21.8	22.6	25.7
Jun	9.2	13.7	16.8	19.6	19.6	20.4	28.9	44.6	45.5
Jul	4.8	6.2	6.7	7.7	8.5	8.9	15.6	15.8	22.0
Aug	3.6	6.3	7.7	11.4	15.0	20.7	39.8	42.4	43.2
Sep	10.2	14.9	22.6	37.4	61.4	68.8	86.7	91.1	93.2
Oct	0.5	0.8	0.9	1.1	1.6	2.6	2.8	3.2	3.2
1986									
May	0.8	1.3	1.9	4.2	7.1	13.0	18.6	19.0	19.0
Jun	6.2	8.2	9.8	10.2	10.8	12.8	17.0	21.9	22.5
Jul	7.9	15.8	19.8	21.8	26.7	27.7	33.3	33.3	36.0
Aug	9.1	12.5	16.2	17.1	23.7	24.4	25.6	25.6	25.6
Sep	1.8	2.8	3.4	4.7	8.0	11.9	23.5	26.4	33.6
Oct	2.0	3.0	3.4	3.6	3.6	4.8	8.0	9.6	10.6
1987									
May	3.6	4.4	4.6	4.7	6.9	11.1	24.2	33.8	46.1
Jun	1.8	6.0	6.2	7.6	11.1	18.6	34.2	35.2	35.4
Jul	2.7	2.7	2.9	4.2	6.4	11.0	14.8	19.6	19.6
Aug	10.9	12.5	14.1	18.6	29.3	33.5	37.0	37.8	38.0
Sep	3.4	3.6	3.7	4.8	5.0	5.6	5.8	6.0	7.0
Oct	0.4	0.6	0.8	1.4	2.2	2.4	4.8	5.2	7.0
Period 1969-87	18.8	31.5	36.4	42.4	61.4	68.8	86.7	91.1	93.2
	Aug 1972	Aug 1972	Aug 1972	Aug 1972	Sep 1985	Sep 1985	Sep 1985	Sep 1985	Sep 1985

Notes: 1. Values were recorded using an MSC tipping bucket rain gauge at station 1 and were corrected to the nearby standard gauge.

2. Only monthly maximum rainfall amounts for indicated durations have been reported. Similar data for all rainfall events are available on request.

Table 23. Summary of the greatest rainfall events recorded at the Experimental Lakes Area for each year of the 19 year period, 1969 to 1987.

Year	Date	Rainfall (mm)	Storm Duration (hours)	Average Intensity (mm/hr)
1969	August 29	39.1	7	5.6
1970	September 7	56.6	18	3.1
1971	September 30	54.1	11	4.9
1972	July 10	61.2	3	20.4
1973	August 31 to September 2	64.3	33	2.0
1974	August 14	48.5	10	4.8
1975	June 20 to 22	84.8	63	1.3
1976	August 10	48.8	13	3.8
1977	September 9	38.4	17	2.3
1978	September 13 to 14	41.0	38	1.1
1979	October 30 to 31	65.4	49	1.3
1980	July 16	33.0	8	4.1
1981	September 6	83.6	24	3.5
1982	July 2 - 3	71.0	14	5.1
1983	June 13 - 14	36.4	6	6.1
1984	October 16 - 17	42.4	28	1.5
1985	September 19	90.9	9	10.1
1986	September 2 - 3	51.8	35	1.5
1987	May 20 - 21	46.9	26	1.8

Note: 1. All data were measured at the meteorological station (1).

2. Average intensities (rainfall/duration) were included here to aid in comparison of major events.

3. Where more than one major event occurred in a year, that which had the greatest precipitation amount is shown.

Table 24. Number of days each year which had more than 25 millimetres of rainfall during the 19 year period 1969-1987.

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	Total	Mean
C.D.	4	6	4	4	5	4	5	2	2	1	2	2	5	2	1	1	6	4	3	63	3.3
P.D.	6	5	3	5	6	3	3	2	1	1	3	2	6	3	1	1	6	5	3	65	3.4

Notes: 1. Period of record began June 27, 1969.

2. C.D. indicates "calendar day" from 0:00 hr to 24:00 hr.

3. P.D. indicates "precipitation day" from 08:00 hr to 08:00 hr.

Table 25. Historical table of precipitation events summarizing the number of days each year that rain and snow occurred in specified ranges at the Experimental Lakes Area.

Year	Trace (mm)	0.2-1.0 (mm)	1.1-5.0 (mm)	5.1-10.0 (mm)	10.1-15.0 (mm)	15.1-20.0 (mm)	20.1-25.0 (mm)	> 25.0 (mm)	Total
1969									
1970	23	43	45	26	13	4	5	9	168
1971	33	50	60	19	8	9	3	4	186
1972	20	49	57	12	9	1	3	5	156
1973	6	25	52	17	8	5	1	7	121
1974	17	32	58	17	7	1	4	4	140
1975	33	48	55	13	7	3	6	4	169
1976	21	60	51	13	8	2	0	2	157
1977	18	60	72	19	9	10	0	5	193
1978	15	53	55	20	12	3	4	1	163
1979	18	62	66	18	5	1	1	4	175
1980	38	48	61	20	5	5	1	2	180
1981	43	58	40	14	8	3	1	6	173
1982	56	48	54	20	10	4	2	3	197
1983	45	44	52	20	5	7	0	1	174
1984	37	46	53	16	13	4	3	1	173
1985	21	52	64	16	6	7	4	5	175
1986	18	53	66	15	7	7	0	4	170
1987	30	52	48	18	6	2	0	3	159
Total	492	883	1009	313	146	78	38	70	3029
Mean	27.3	49.0	56.0	17.3	8.1	4.3	2.1	3.9	168.2
Max	56	62	66	26	13	10	6	9	197
Min	6	25	40	12	5	1	0	1	121
N	18	18	18	18	18	18	18	18	18

Note: Units are precipitation days (08:00 to 08:00 cst)

APPENDIX 2

SNOW SURVEY SUMMARY

This section presents a summary of all snow survey results collected in the Experimental Lakes Area during the 1982 to 1987 period. Snow surveys were generally conducted in late February to mid-March of each year to define the peak snow pack condition before ripening with respect to depth, water content and density. These data provide an estimate of water available for spring runoff and serve as a check on the accuracy of the accumulated daily Nipher gauge measurements. As the winter progresses, the snow pack settles and ages. This aging process from a fine to a coarse crystaline state is known as ripening (Bruce and Clark 1966). In the ELA area, the density of freshly fallen snow usually ranges from 0.07 to 0.15 with an average of 0.10. Densities of ripe snow packs generally range between 0.3 and 0.6. Snow density is the ratio of the water equivalent of the snow pack to the depth of the snow pack (cm/cm). The water equivalent of the snow pack is the depth of water that would result from melting, and it is dependent on the depth and the density. Additional snow data are given in Appendix 1 in the form of daily snow water equivalents measured with a shielded Nipher snow gauge at the meteorological site (Station 1).

The procedures used for all surveys were similar to those recommended in the Snow Survey Sampling Guide (U.S.D.A. 1959). The equipment used was a Mount Rose snow sampler. It is an aluminum coring tube with a cutting edge having an inside diameter of 1.485 in. (3.77 cm), so that a core weighing one ounce (28.35 g) is equivalent to one inch (2.54 cm) of water. This allows the determination of snow pack water equivalents to be made gravimetrically in the field by weighing the tube before and after coring using a portable calibrated spring balance. Usually 7 to 10 sample points were selected randomly in the general area of the snow course locations shown in Fig. 6. The snow courses used were as follows:

1) Meteorological site
3) Field camp, in a line along periphery of camp in non-traffic areas
4) East Subbasin, lower, along trail, near weir
7) Roddy Lake to Lake 239 portage trail
8) NW Subbasin, lower, near trail and weir
9) Lake 303 ridge trail, along the top of the ridge between the met. site and L.303.

Snow courses 2, 5, 6 and 10 to 18 were not used in the 1982 to 1987 period. Generally, the snow depth tended to be less on bare ridge tops or exposed areas and greatest in protected low lying areas. Sites in use were selected to represent typical but different exposures to represent the average snow cover. For that reason, sites sampled were only in the Lake 239 basin but were intended to be generally representative of the larger ELA area.

Table 26 provides a summary of average snow depth (cm), average water equivalent (cm), and average snow density (cm of water equivalent per cm of snow depth) for each snow course for 6 snow surveys. Twenty-two similar surveys carried out in the 1969 to 1981 period were reported in Beaty 1981 and Beaty 1984.

Usually cores are not retained but in 1986 all cores were submitted for pH analysis (G. Linsey, ELA Chemistry).

Other snow data consisted of depth measurements made at the meteorological site at the end of each month and after each major snowfall. Table 27 summarizes these data so that winter snow conditions can be easily compared. The maximum observed snow depth for the period 1969 to 1987 was 84 cm in 1975 and the average maximum was 59 cm.

Fig. 6 Map showing location of the snow survey courses used at the Experimental Lakes Area during the 1982 to 1987 period.

Table 26. Summary of snow survey data for the Experimental Lakes Area from 1982 to 1987.

Snow Course Number	Location	Average Depth (cm)	Water Content (cm)	Average Density (cm/cm)	Remarks
March 11, 1982					
4	East Subbasin, lower, near weir	59.8	9.9	0.161	- air temp.: -16.5 to -2.5°C
8	NW Subbasin, lower, near weir	62.7	11.5	0.183	- snow conditions good except for an ice layer 8 cm below surface.
9	Lake 303 ridge trail	56.6	11.2	0.199	- no melting has taken place and snow pack is uniform.
	Mean	59.7	10.9	0.181	
March 15, 1983					
1	Meteorological station	31.1	9.1	0.295	- air temperature -7.5 to -3.0°C
3	Field station area	28.9	8.0	0.276	- excellent conditions
4	East Subbasin, lower	34.8	9.8	0.254	- no spring melting has begun yet
8	NW Subbasin, lower	38.7	10.1	0.260	- snow cover is continuous
9	Lake 303 ridge trail	35.0	10.2	0.292	- rain and a mild spell has partially ripened the snow pack and then cooler temperatures have caused the snow to crystalize.
	Mean	33.7	9.2	0.275	
March 6-7, 1984					
1	Meteorological station	44.7	11.7	0.262	- air temperature -26 to -18°C
3	Field station area	46.4	12.9	0.278	- excellent conditions
4	East Subbasin, lower	49.5	12.7	0.256	- no spring melting has begun yet
8	NW Subbasin, lower	52.3	11.7	0.224	- snow cover is continuous
9	Lake 303 ridge trail	40.1	10.6	0.264	- consistent hard crust layer at about 6 cm depth at every core location.
	Mean	46.6	11.9	0.257	
February 18-19, 1986					
1	Meteorological station	47.8	8.4	0.176	- air temperature -10°
3	Field station area	43.9	7.1	0.162	- excellent conditions
4	East Subbasin, lower	56.1	8.9	0.159	
8	NW Subbasin, lower	51.4	8.3	0.161	
9	Lake 303 ridge trail	46.6	7.9	0.170	
	Mean	49.2	8.1	0.164	
March 6, 1986					
1	Meteorological station	49.6	9.3	0.184	- air temperature -17.5°C
3	Field station area	61.4	10.6	0.172	- good conditions
4	East Subbasin, lower	66.6	11.4	0.170	- all cores were retained for pH analysis
7	Roddy Lake to Lake 239 portage trail	67.0	10.8	0.161	
9	Lake 303 ridge trail	62.2	11.6	0.185	
	Mean	61.4	10.7	0.175	
March 5, 1987					
1	Meteorological station	51.0	-	-	- air temperature good turning to warm.
3	Field station area	55.0	9.0	0.164	- snow temperature eventually became too warm to continue.
8	NW Subbasin, lower	53.4	10.2	0.151	
9	Lake 303 ridge trail	37.8	8.4	0.222	
	Mean	49.3	9.2	0.192	

Notes: 1. The depth, water content and density values for each snow course are the average of usually 7 to 10 measurements.
2. Average depth is the point depth of snow (cm).
3. Average water content is the point depth of water equivalent (cm) for the snow pack.
4. Average snow density is calculated by dividing water content by snow depth expressed as a decimal (cm/cm).

Table 27. Summary of depth of snow on the ground data observed at the Experimental Lakes Area meteorological site.

Winter	Depth of snow (cm) at monthend OCT	NOV	DEC	JAN	FEB	MAR	APR	Maximum Observed
1969-70	*	*	*	*	*	*	*	62 MAR 17/70
1970-71	0	18	33	43	48	57	8	65 APR 03/71
1971-72	4	23	33	50	56	56	0	75 MAR 07/72
1972-73	3	13	41	36	41	1	0	46 FEB 13/73
1973-74	0	10	25	48	56	51	0	66 FEB 16/74
1974-75	1	13	23	56	61	79	0	84 MAR 29/75
1975-76	0	15	33	51	53	46	0	66 MAR 03/76
1976-77	0	7	20	34	54	20	0	55 FEB 25/77
1977-78	0	39	43	44	54	52	0	57 MAR 20/78
1978-79	0	37	40	44	53	42	0	67 MAR 08/79
1979-80	4	14	26	47	55	42	0	70 MAR 13/80
1980-81	1	12	24	28	20	0	0	36 FEB 01/81
1981-82	0	10	29	46	52	28	0	52 MAR 01/82
1982-83	0	6	11	28	38	26	0	41 JAN 16/83
1983-84	0	41	40	58	43	19	0	58 FEB 02/84
1984-85	10	5	19	36	42	6	0	48 FEB 19/85
1985-86	0	28	37	40	52	1	0	54 MAR 11/86
1986-87	0	26	34	45	53	1	0	57 FEB 25/87
Mean	1	19	30	43	49	31	0	59

Notes:
1. All units are centimetres of snow.
2. All values are the mean of 7 to 10 representative measurements.
3. Measurements reported were made at or within a few days of monthend.
4. Records of accumulated snow depth were not kept for the winter of 1969-70.
5. The maximum value 62 Mar 17,1970 was from a snow survey assumed to be very close to the time of peak snow pack.
6. A depth of 1 cm may imply that the snow cover was patchy with continuous cover only in low lying or sheltered areas.

APPENDIX 3

SUMMARY OF AIR TEMPERATURE DATA

Air temperature data have been collected at the Rawson Lake meteorological station since June 27, 1969. The site is located 0.5 km northwest of the ELA field station, 365 m from the west shore, and 43 m above the lake (Fig. 1). Maximum, minimum and present temperature were observed twice daily at approximately 08:00 and 20:00 cst (08:00 and 17:00 cst in winter). The measurements were observed to the nearest 0.5 degrees C from thermometers set in a standard double louvered white wooden screen. The screen, commonly called a Stevenson Screen, is set on a wooden stand such that the thermometers are approximately 1.5 m above ground. The ground is exposed bedrock and not level grass as recommended by AES standards.

The maximum temperature for a given day is the highest temperature in the 24 hour period beginning after the morning observation of that day (ie: the highest of that evening's reading and the reading of the next morning). The minimum temperature is the lowest temperature recorded in the 24 hour period beginning after the evening observation of the previous day (ie: the lowest of the morning and evening values for that day). Only the daily maximum and minimum temperature are reported here but the morning and evening values are available on request. The mean temperature for the month, also included, is the average of the daily maximum and minimum values. Monthly extreme air temperatures have been included.

Tables 28 to 33 summarize daily maximum and minimum air temperatures for the 1982 to 1987 period. Records for the 1969 to 1981 period were reported in Beaty (1981, Part 1 and 1984). Table 34 provides an historical summary of monthly and annual temperature from 1969. Figure 7 shows mean annual temperature from 1970 to 1987.

Table 28. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1982. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	-16.5	-13.0	-10.5	-3.0	20.5	9.5	25.0	17.0	15.0	9.5	10.5	5.0
	Min	-23.5	-13.8	-19.5	-16.0	5.0	5.0	13.0	9.0	12.0	3.5	-1.0	3.0
2	Max	-9.0	-22.0	-11.0	-3.0	20.5	14.0	22.0	19.5	16.0	9.0	3.5	8.5
	Min	-26.0	-24.5	-23.0	-6.5	8.0	1.5	15.0	13.0	10.0	6.0	1.0	1.0
3	Max	-21.5	-22.9	-10.0	-7.0	24.5	19.6	17.0	24.6	19.0	12.5	-2.0	-0.5
	Min	-27.5	-23.0	-21.5	-16.0	10.0	9.0	15.0	15.5	11.5	5.5	-2.0	-3.0
4	Max	-20.0	-22.0	-8.0	-7.5	18.5	22.5	25.0	27.6	25.0	15.0	-4.0	2.5
	Min	-24.5	-25.5	-13.5	-13.0	11.5	11.5	14.5	17.5	12.5	7.5	-7.0	-3.5
5	Max	-15.0	-21.6	-9.0	-6.5	15.5	23.5	24.0	27.0	14.0	6.0	-3.0	-2.5
	Min	-23.5	-23.0	-22.0	-17.0	5.0	12.0	16.5	17.0	7.5	2.5	-6.0	-9.5
6	Max	-24.5	-16.5	-15.5	-3.0	17.5	20.5	26.0	26.5	16.0	6.0	-0.5	-13.5
	Min	-28.5	-25.5	-18.5	-15.0	3.5	13.0	17.0	17.0	5.5	3.5	-3.5	-16.5
7	Max	-24.0	-12.0	-15.0	-0.5	5.0	14.5	19.0	27.5	19.0	9.0	6.5	-13.0
	Min	-28.5	-13.5	-20.0	-14.0	-1.0	7.0	11.5	17.0	9.0	5.0	-3.5	-20.0
8	Max	-19.5	-17.0	-12.5	2.0	10.0	11.5	24.5	16.5	25.0	10.0	0.5	-16.0
	Min	-32.5	-24.5	-25.5	-10.5	-1.0	5.0	12.0	12.0	15.5	6.0	-4.0	-25.5
9	Max	-32.0	-21.5	-9.0	3.5	16.0	13.5	20.0	17.5	20.5	9.5	-1.0	-5.0
	Min	-35.5	-30.0	-25.5	-3.0	6.0	7.0	14.0	9.0	10.0	7.0	-4.5	-23.5
10	Max	-20.0	-15.0	-4.5	-1.5	15.5	18.0	24.0	18.5	25.5	8.5	0.0	-19.0
	Min	-36.0	-28.0	-10.5	-5.5	7.0	6.5	12.5	7.0	19.0	7.0	-5.0	-21.0
11	Max	-16.5	-13.0	-1.5	4.5	14.0	17.5	26.5	21.5	20.0	8.5	0.0	-15.5
	Min	-23.5	-19.5	-18.5	-5.0	7.0	10.0	18.5	10.0	14.5	6.0	-1.5	-22.5
12	Max	-17.5	-12.5	1.5	10.0	17.0	18.0	28.5	23.5	14.0	6.5	-12.0	-6.0
	Min	-27.5	-24.0	-4.5	1.0	5.0	7.0	16.5	11.0	10.0	4.5	-14.0	-23.5
13	Max	-17.0	-11.5	-4.0	6.5	12.0	21.0	19.5	26.0	14.5	8.5	-10.0	-7.5
	Min	-26.0	-22.0	-9.5	-0.5	7.5	9.5	15.5	15.0	9.0	5.0	-17.0	-13.0
14	Max	-16.0	-4.0	1.0	15.0	14.0	20.5	25.5	25.0	9.0	14.0	-7.0	-12.0
	Min	-23.5	-21.5	-15.0	2.0	9.5	10.0	13.5	14.0	4.5	7.0	-13.5	-15.0
15	Max	-25.0	-6.5	5.5	17.0	11.5	16.5	21.5	28.0	12.0	7.5	0.0	-8.5
	Min	-30.5	-17.0	-2.0	5.5	9.0	7.0	17.5	18.5	3.0	2.0	-9.0	-15.5
16	Max	-22.5	-3.0	3.0	9.0	10.5	14.5	27.0	24.5	14.5	4.5	1.5	-4.0
	Min	-35.5	-11.0	-1.0	2.5	3.5	3.5	13.0	15.0	4.0	-0.5	-10.0	-13.5
17	Max	-26.5	0.0	0.0	2.0	15.0	15.0	20.0	26.5	12.5	7.5	2.0	-2.5
	Min	-39.0	-5.5	-2.5	-2.0	9.0	8.5	16.5	14.0	3.0	0.5	-5.5	-8.5
18	Max	-16.0	0.5	-6.0	6.5	13.5	17.5	21.5	24.0	18.0	5.0	4.5	-2.5
	Min	-33.0	-0.5	-12.5	-3.5	12.0	9.5	10.5	15.0	3.5	2.0	-4.0	-3.0
19	Max	-13.5	0.5	-2.5	3.5	9.5	17.0	23.5	25.0	11.0	1.5	7.5	-7.5
	Min	-22.5	-5.5	-15.0	-5.5	5.0	7.5	13.0	16.0	6.0	-0.5	-4.5	-9.0
20	Max	-23.5	-0.5	2.0	6.5	15.5	18.0	30.0	23.0	12.0	0.0	1.0	-7.5
	Min	-34.0	-4.5	-11.5	-8.0	3.0	8.5	14.0	14.0	3.0	-3.5	5.5	-12.0
21	Max	-19.0	0.5	5.0	11.0	18.5	18.5	23.5	17.5	18.0	7.0	-10.0	-7.0
	Min	-25.5	-5.5	-8.0	-1.0	5.0	9.0	13.0	14.0	5.0	-3.5	-13.0	-10.5
22	Max	-12.0	-2.5	5.0	16.0	21.0	19.5	24.0	22.0	20.0	11.5	-11.5	-1.5
	Min	-23.5	-7.5	-10.0	2.5	8.5	8.5	13.0	13.0	6.5	0.0	-15.0	-8.5
23	Max	-19.5	-9.5	3.0	23.0	23.0	23.0	26.5	20.0	12.5	13.0	-13.5	0.5
	Min	-22.0	-20.5	-3.5	7.0	8.5	13.5	17.0	11.5	10.5	1.5	-19.0	-4.0
24	Max	-23.5	-9.0	-1.5	26.0	24.0	17.5	27.0	19.0	11.0	15.5	-9.0	-6.0
	Min	-34.5	-15.5	-5.0	7.5	10.5	13.0	18.0	12.0	5.0	7.0	-22.0	-9.0
25	Max	-17.5	-7.0	-6.0	8.5	22.0	21.0	25.5	14.0	13.5	16.5	-14.5	-10.5
	Min	-30.5	-22.0	-15.5	2.5	12.5	8.5	16.5	9.0	1.5	5.5	-22.0	-14.0
26	Max	-8.0	-9.0	-5.5	11.0	25.5	23.0	24.5	12.0	18.5	13.0	-15.0	-4.0
	Min	-25.5	-13.5	-17.5	-1.0	13.0	16.0	15.0	4.5	9.0	6.5	-23.5	-15.5
27	Max	-5.5	-8.0	1.0	15.5	27.5	23.5	26.0	13.0	8.0	14.0	-2.5	-4.5
	Min	-12.5	-22.0	-15.0	0.0	14.5	14.5	16.0	3.5	5.0	8.0	-20.0	-11.0
28	Max	-16.5	-3.0	6.0	18.5	28.0	21.0	27.0	16.0	15.5	12.0	-1.0	-15.0
	Min	-24.0	-11.5	-3.5	0.0	15.0	13.5	16.0	4.5	4.5	7.5	-8.5	-17.5
29	Max	-11.5		5.0	18.0	23.5	19.0	21.5	16.5	14.0	6.5	-1.0	-20.5
	Min	-22.5		1.0	3.5	16.0	8.0	14.5	9.5	9.5	4.0	-7.5	-32.5
30	Max	-22.5		3.5	16.5	20.0	22.5	25.5	16.0	5.5	4.5	1.0	-12.0
	Min	-31.5		2.0	6.5	9.5	12.0	15.5	7.5	4.5	-0.5	-5.0	-29.0
31	Max	-16.5		0.5		12.0		27.0	14.5		10.0		-6.0
	Min	-34.0		0.0		8.0		18.0	10.5		0.0		-17.5
Monthly Mean		-23.8	-14.2	-7.5	1.8	12.8	13.8	20.0	16.6	12.0	6.4	-5.8	-10.2
Mean Max		-19.0	-10.0	-3.0	7.3	17.4	18.4	25.0	21.0	15.9	9.1	-2.6	-6.9
Mean Min		-28.6	-18.5	-12.0	-3.6	8.2	9.2	15.0	12.1	8.2	3.6	-8.9	-13.6

Maximum recorded temperature 30.0°C on July 20
Minimum recorded temperature -39.0°C on January 17
Mean temperature for 1982 1.8°C

Table 29. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1983. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	M	-8.5	-3.5	1.0	14.0	19.5	17.5	29.0	31.0	9.5	10.5	-10.0
	Min	-14.0	-19.5	12.0	0.5	-2.0	5.5	14.5	16.5	20.0	7.5	7.5	-11.5
2	Max	M	-13.5	0.5	1.5	16.0	19.5	18.5	26.5	33.5	9.0	4.0	-12.0
	Min	-22.5	-15.0	-6.0	-1.5	1.5	10.0	14.5	18.0	17.5	6.0	0.5	-15.5
3	Max	M	-14.5	-0.5	5.0	15.0	16.0	20.5	28.5	27.0	8.5	4.5	-5.5
	Min	-16.5	-26.0	-1.0	-3.5	3.5	11.0	16.5	19.0	18.5	6.5	-5.0	-18.0
4	Max	M	-18.5	0.5	5.5	7.0	10.0	13.0	32.0	26.0	9.5	7.0	-10.0
	Min	-8.0	-29.5	-3.5	-5.0	-3.0	7.5	8.0	19.5	15.0	4.5	-1.5	-13.5
5	Max	-5.5	-18.0	2.0	5.5	13.5	14.5	17.5	30.5	26.0	9.5	6.0	-11.5
	Min	-11.5	-25.0	0	-5.0	-2.0	6.0	7.0	20.5	14.5	7.0	4.0	-15.0
6	Max	-4.0	-16.5	1.5	4.5	11.0	18.5	29.0	29.5	17.0	9.0	6.5	-9.5
	Min	-9.5	-23.0	1.0	-4.5	0	6.0	10.0	17.5	10.0	2.5	1.5	-14.0
7	Max	-7.0	-11.0	-0.5	6.0	10.0	17.5	27.5	32.5	20.0	9.0	9.0	-9.5
	Min	-9.0	-22.0	-1.0	-4.0	3.0	3.0	18.0	22.5	13.0	3.0	0	-12.5
8	Max	-3.0	-13.5	-10.0	9.5	14.0	12.0	28.0	25.0	22.0	13.0	3.0	-16.5
	Min	-11.0	-20.0	-12.0	-3.5	0	8.0	19.0	17.0	14.5	-0.5	0.5	-20.0
9	Max	0	-6.0	-8.5	8.0	17.5	20.5	27.5	25.0	20.0	13.5	-1.0	-20.5
	Min	-5.0	-17.0	-16.5	-1.5	4.0	5.0	17.5	14.5	11.5	2.0	-3.5	-28.5
10	Max	-5.0	-3.5	-4.5	10.0	16.0	23.5	33.0	23.0	15.5	8.0	-2.0	-12.5
	Min	-11.0	-10.0	-17.0	1.0	8.5	11.0	19.5	16.0	12.5	7.0	-4.0	-28.0
11	Max	-15.5	-1.0	4.0	10.0	12.0	29.0	21.0	26.0	15.5	6.5	-2.0	-7.5
	Min	-22.5	-7.5	-12.0	-2.5	7.0	14.5	16.5	14.5	8.0	3.0	-7.0	-21.5
12	Max	-10.5	0	9.5	8.0	16.0	27.5	28.0	28.0	15.0	3.5	0	-15.0
	Min	-27.0	-6.0	-5.5	0.5	2.5	19.5	16.0	16.0	6.5	-1.5	-8.0	-24.5
13	Max	-11.0	6.5	2.5	1.0	9.0	23.0	33.0	28.5	14.5	3.0	0	-11.0
	Min	-18.5	-1.0	0	-1.5	3.5	17.0	21.0	18.5	6.5	-0.5	-3.5	-17.5
14	Max	-10.5	1.5	-5.5	-1.0	4.0	14.5	32.5	29.0	15.5	8.5	0.5	-10.0
	Min	-16.5	-1.5	-14.0	-9.0	-4.5	13.0	20.0	15.5	6.0	-2.0	-1.5	-12.5
15	Max	-15.5	0.5	-2.5	1.0	4.5	17.5	33.5	31.5	11.5	6.5	-2.0	-19.5
	Min	-26.0	-3.5	-11.0	-10.5	-6.5	11.5	23.0	17.0	9.0	0.5	-3.5	-23.0
16	Max	-14.0	0.5	-0.5	-1.0	9.0	14.5	26.0	21.0	13.5	5.5	-2.0	-23.5
	Min	-13.0	-2.5	-6.0	-10.0	-4.0	4.5	20.0	14.5	9.0	1.5	-4.0	-31.0
17	Max	-21.5	-11.0	-2.0	3.5	15.0	22.0	26.5	30.0	14.5	4.0	1.5	-26.5
	Min	-24.5	-16.0	-6.0	-7.5	0.5	6.0	16.0	16.0	9.5	-1.0	-4.0	-33.0
18	Max	-13.5	-6.0	-2.0	6.5	20.5	24.0	26.5	32.0	10.5	4.0	1.0	-27.5
	Min	-26.5	-16.0	-5.5	-5.0	3.0	12.0	18.0	18.0	7.0	-3.0	-1.0	-33.5
19	Max	-8.0	-4.5	-5.5	9.0	15.0	24.5	26.0	23.0	8.0	9.0	2.0	-22.5
	Min	-16.0	-8.5	-9.5	-3.0	7.5	15.5	17.0	18.0	5.0	1.0	0.5	-39.5
20	Max	-3.5	-6.0	-6.0	12.0	13.0	25.0	29.5	18.0	8.0	11.5	-3.0	-22.5
	Min	-9.5	-8.5	-15.5	0.5	3.0	17.0	18.5	12.0	5.0	4.0	-4.5	-32.5
21	Max	-3.0	-1.5	-8.5	14.0	18.0	26.0	30.0	20.5	6.0	8.5	-4.0	-17.5
	Min	-5.5	-14.0	-18.5	4.5	5.0	18.0	20.0	12.0	1.5	3.0	-5.5	-27.5
22	Max	-0.5	2.0	-6.5	10.5	14.0	22.0	29.0	22.5	7.0	13.0	-4.5	-23.0
	Min	-4.5	-5.0	-18.5	-0.5	4.5	17.0	18.5	13.0	1.0	4.0	-6.0	-25.0
23	Max	-2.5	-3.0	-4.0	14.5	18.5	25.0	24.0	25.0	14.5	10.5	-4.0	-26.0
	Min	-4.5	-7.0	-17.0	-1.0	5.0	13.0	16.5	15.0	0.5	3.0	-5.5	-31.5
24	Max	-13.0	-4.0	1.0	21.0	10.0	27.0	27.0	24.5	18.0	8.5	-7.0	-24.5
	Min	-16.5	-16.0	-13.0	2.5	1.5	16.5	15.5	16.0	6.5	6.0	-9.0	-28.5
25	Max	-20.5	-2.0	4.5	20.5	13.5	28.0	27.5	30.0	20.0	8.5	-5.5	-12.5
	Min	-28.5	-16.0	-8.0	6.5	1.5	20.0	16.5	20.0	10.0	-1.0	-10.0	-27.5
26	Max	-20.0	-1.0	1.5	14.5	17.5	24.5	28.0	29.0	24.5	9.5	-5.5	-10.5
	Min	-31.5	-6.5	-1.0	8.5	4.0	13.0	17.0	20.0	7.0	2.0	-8.5	-17.5
27	Max	-8.0	0	5.5	5.5	19.5	21.0	26.0	29.5	24.0	15.5	-6.0	-13.5
	Min	-28.0	-1.5	-3.5	2.0	10.0	6.5	21.5	17.5	11.5	5.5	-8.0	-22.0
28	Max	-2.0	-10.5	3.5	3.5	17.5	25.0	28.5	27.0	21.5	6.0	-7.5	-20.5
	Min	-12.0	-12.0	-8.0	-2.0	9.0	12.0	18.5	16.0	14.0	3.5	-9.0	-23.5
29	Max	-5.0		4.5	2.0	15.5	24.0	27.0	25.0	12.0	7.0	-7.5	-17.0
	Min	-7.5		-5.0	-2.5	5.5	13.0	18.5	16.0	6.0	-2.0	-11.0	-30.0
30	Max	-5.0		2.5	8.5	17.0	19.0	24.5	27.5	10.5	11.0	-6.5	-9.5
	Min	-13.0		-2.0	-3.0	7.0	14.5	19.0	16.5	5.5	2.5	-9.5	-21.0
31	Max	-9.5		2.0		17.5		23.5	29.0		11.5		-13.5
	Min	-19.5		0		6.0		15.0	17.0		2.5		-21.0
Monthly Mean		-12.4	-9.4	-4.4	2.8	8.3	16.4	21.6	21.9	13.4	5.6	-2.2	-19.5
Mean Max		-8.8	-6.0	-0.8	7.5	13.9	21.2	26.1	27.0	17.4	8.7	-0.5	-16.8
Mean Min		-15.9	-12.9	-8.0	-2.0	2.7	11.6	17.0	16.8	9.4	2.5	-4.0	-23.2

Maximum recorded temperature 33.5°C on July 15 and September 2
Minimum recorded temperature -39.5°C on December 19
Mean temperature for 1983 3.5°C

Table 30. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1984. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	-8.0	-4.0	-6.5	8.5	5.0	23.0	23.0	27.5	17.0	17.0	-13.0	-9.0
	Min	-19.5	-9.5	-19.5	-2.5	-3.0	12.5	16.0	16.5	7.0	1.0	-15.0	-15.0
2	Max	2.0	-6.0	-4.5	7.5	10.5	20.5	26.0	29.0	16.0	16.5	-2.5	-8.0
	Min	-11.5	-7.0	-16.0	-3.5	-3.5	12.5	15.0	18.0	10.0	8.0	-16.0	-11.0
3	Max	3.0	-4.5	-1.5	11.0	13.5	24.0	24.0	30.0	18.5	13.0	2.0	-12.0
	Min	-7.0	-6.0	-8.5	-4.5	-1.0	10.0	17.0	18.0	10.5	2.5	-10.0	-16.0
4	Max	-3.5	-12.5	-1.0	11.5	15.5	18.5	21.0	30.5	17.0	6.0	-0.5	-9.0
	Min	-14.0	-21.0	-6.0	1.5	1.0	11.0	13.0	18.0	7.0	2.5	-5.0	-18.0
5	Max	-0.5	-20.0	-16.0	12.5	14.5	19.5	16.0	30.5	19.0	15.5	-6.0	-15.5
	Min	-13.5	-28.5	-20.0	2.5	1.0	12.0	11.0	19.0	6.5	2.0	-8.5	-20.0
6	Max	-3.0	-15.5	-17.0	11.5	14.0	19.5	19.0	31.5	22.0	17.5	0	-6.0
	Min	-13.5	-22.5	-29.0	1.0	4.0	12.0	8.0	20.0	9.5	10.0	-9.0	-26.5
7	Max	-3.0	-10.5	-12.5	11.5	4.5	25.0	22.5	30.0	16.0	19.0	5.5	2.5
	Min	-12.0	-22.0	-23.5	0.5	1.0	15.0	11.5	19.5	13.0	11.5	-5.0	-14.0
8	Max	-15.5	-4.0	-10.5	13.0	4.0	17.0	26.0	29.0	12.0	15.0	3.5	1.5
	Min	-27.5	-13.5	-21.5	0.5	-0.5	13.0	13.5	20.0	10.0	7.0	-0.5	-4.0
9	Max	-15.5	4.0	-9.0	13.0	12.5	10.5	28.0	24.0	13.0	19.5	0	2.5
	Min	-24.5	-9.0	-23.0	5.0	1.5	8.5	17.0	15.0	9.0	7.0	-5.0	-1.5
10	Max	-23.0	1.0	-8.5	11.0	12.5	17.0	27.0	21.0	11.0	17.5	-4.0	0
	Min	-39.5	-6.0	-18.5	6.5	5.0	5.0	15.0	12.5	8.0	10.0	-9.0	-3.0
11	Max	-22.5	-2.0	-18.0	12.5	10.5	20.0	27.5	25.0	12.5	16.5	1.0	0
	Min	-30.0	-4.5	-29.5	3.5	4.0	7.0	16.5	12.5	6.5	12.0	-9.5	-4.0
12	Max	-18.0	-2.5	-11.5	16.5	12.5	15.5	26.0	26.0	13.0	18.5	2.5	-20.0
	Min	-28.5	-4.0	-25.0	4.0	1.0	11.0	15.5	14.5	8.5	13.5	-4.0	-25.5
13	Max	-15.0	-0.5	-5.5	16.5	16.0	17.0	26.5	31.0	11.0	18.0	6.5	-11.0
	Min	-23.0	-3.0	-13.5	6.5	3.0	11.0	15.5	18.5	8.5	13.0	-1.5	-25.0
14	Max	-17.5	0	-1.5	16.5	16.0	20.5	25.0	30.5	12.0	14.0	3.5	-3.0
	Min	-27.5	-2.0	-9.5	1.0	4.0	8.5	18.0	20.0	5.0	11.0	2.0	-17.5
15	Max	-13.5	2.0	-12.0	14.5	18.0	19.0	21.5	22.0	15.0	16.0	0	0
	Min	-24.5	-6.5	-20.5	2.0	5.0	12.0	14.0	16.5	4.0	11.5	-7.0	-7.5
16	Max	-16.0	2.5	-10.5	12.5	14.5	26.5	22.5	24.5	19.5	8.0	-9.5	-0.5
	Min	-20.0	-0.5	-23.5	0	8.0	15.0	12.5	10.5	4.0	5.5	-15.5	-16.0
17	Max	-25.0	1.5	-3.5	13.5	23.5	22.0	21.5	25.0	20.5	6.5	-10.5	-20.0
	Min	-31.5	0	-16.5	-2.0	11.0	17.0	12.0	16.5	11.0	0	-17.5	-22.0
18	Max	-25.0	-1.5	1.5	16.5	21.0	20.5	25.5	26.5	22.0	7.5	-7.5	-21.5
	Min	-34.0	-2.0	-12.5	1.5	9.0	16.0	13.0	15.0	13.5	2.5	-17.5	-30.0
19	Max	-27.5	-1.0	4.5	19.0	10.0	23.0	24.5	29.0	24.0	3.5	-7.5	-15.5
	Min	-31.0	-7.0	-7.5	5.0	8.0	11.0	14.5	18.0	11.0	1.0	-16.0	-25.5
20	Max	-27.0	0	5.0	21.0	14.5	22.5	25.0	22.5	16.5	3.0	-5.0	-6.5
	Min	-38.5	-6.5	-4.5	5.0	6.0	12.5	15.0	18.0	8.0	0.5	-14.5	-22.0
21	Max	-16.5	5.5	2.5	17.5	19.0	25.0	27.0	23.0	18.0	4.5	1.0	-6.0
	Min	-28.0	-5.0	-3.5	3.0	9.0	15.0	17.0	14.5	8.5	2.5	-8.5	-16.0
22	Max	-13.5	8.0	2.0	18.0	17.0	24.0	29.0	17.5	17.5	4.0	1.5	-27.0
	Min	-25.5	-3.0	-4.0	2.5	7.5	16.5	20.5	8.5	12.0	1.0	-2.0	-29.5
23	Max	-6.0	-1.0	2.0	18.5	16.5	19.5	24.5	21.0	6.0	3.0	5.5	-27.5
	Min	-16.5	-2.5	-6.5	2.0	4.0	12.5	15.0	9.5	2.0	0	-2.0	-32.0
24	Max	-0.5	-6.0	5.5	20.5	14.5	19.5	24.0	25.5	2.0	4.5	6.0	-26.5
	Min	-7.0	-14.0	-2.5	7.0	6.0	11.5	14.0	12.5	0.5	-1.5	-1.0	-33.0
25	Max	-14.5	-6.5	7.5	14.0	9.5	27.0	25.5	28.0	3.0	7.0	9.5	-25.5
	Min	-23.5	-16.5	-3.5	2.5	1.5	10.0	16.0	16.5	-1.0	-4.0	3.5	-29.0
26	Max	-10.5	-2.0	8.0	11.0	13.0	26.5	23.0	29.5	5.5	12.0	4.0	-14.0
	Min	-19.5	-14.5	-1.0	5.0	3.0	13.0	14.5	19.0	-0.5	-3.0	3.0	-34.0
27	Max	-13.5	0.5	7.5	12.0	15.0	21.5	24.0	33.5	6.5	12.0	2.0	-9.0
	Min	-29.0	-10.0	-2.0	6.0	1.5	13.0	13.0	20.0	-0.5	2.5	1.0	-23.0
28	Max	-13.0	-4.0	2.5	-0.5	19.0	22.5	28.0	35.5	10.5	-2.0	-2.0	-14.0
	Min	-18.0	-8.5	-3.5	-3.0	6.0	11.0	14.5	18.5	0.5	-6.0	-4.5	-16.0
29	Max	-14.0	-8.5	3.0	4.0	21.0	25.0	27.5	23.5	13.5	0.5	-4.0	-21.0
	Min	-19.5	-18.5	-8.0	-3.0	11.0	13.5	17.5	13.0	1.0	-6.5	-6.0	-25.0
30	Max	-11.5		4.5	1.0	23.5	27.0	24.0	18.5	13.0	-4.5	-7.5	-25.0
	Min	-25.0		-6.5	-4.0	10.5	14.0	17.5	13.0	2.0	-9.0	-11.0	-31.0
31	Max	-4.5		7.0		20.0		27.0	17.5		-0.5		-23.0
	Min	-16.0		-4.5		15.0		19.0	9.0		-9.0		-34.0
Monthly Mean		-17.6	-6.0	-7.8	7.4	9.7	16.7	19.7	21.1	10.5	6.6	-3.9	-16.0
Mean Max		-12.6	-2.6	-2.8	12.9	14.8	21.3	24.6	26.4	14.5	10.0	-0.8	-11.9
Mean Min		-22.5	-9.5	-12.8	1.8	4.5	12.1	14.9	15.8	6.5	3.2	-7.0	-20.2

Maximum recorded temperature 35.5°C on August 28, 1984
Minimum recorded temperature -39.5°C on January 10, 1984
Mean temperature for 1984 3.4°C

Table 31. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1985. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	-19.0	-28.0	-5.5	5.5	16.5	10.0	22.5	26.5	16.0	3.0	4.5	-21.0
	Min	-26.5	-40.0	-9.0	-2.0	4.5	4.5	15.5	14.0	9.0	1.5	1.0	-25.5
2	Max	-13.0	-23.0	-8.5	8.5	18.5	12.5	25.5	25.5	12.5	12.0	5.0	-17.5
	Min	-31.5	-35.5	-16.5	-0.5	7.0	1.5	12.5	17.0	8.5	2.0	-2.0	-24.0
3	Max	-3.5	-25.5	-7.5	-1.0	20.0	16.5	25.0	24.5	14.0	15.0	5.0	-11.5
	Min	-20.5	-33.0	-18.0	-2.0	7.5	3.5	14.0	16.0	10.0	5.5	-2.5	-27.5
4	Max	-2.5	-21.0	-6.0	-1.5	14.5	13.0	24.5	20.0	18.0	10.0	3.5	-10.5
	Min	-7.0	-34.5	-13.5	-3.5	7.0	8.0	13.5	17.0	11.5	4.0	-4.0	-15.0
5	Max	-1.5	-16.5	-1.5	3.0	19.5	18.5	26.5	23.0	20.0	9.0	8.5	-9.5
	Min	-4.5	-28.5	-15.0	-5.0	6.5	4.5	17.0	17.0	9.5	2.5	2.5	-15.5
6	Max	-10.0	-13.5	-3.5	4.0	14.5	17.0	27.0	25.0	19.5	7.5	1.5	-8.0
	Min	-12.0	-22.5	-14.5	-5.0	7.5	8.0	16.0	17.0	11.5	1.0	-1.5	-21.5
7	Max	-12.5	-16.5	-0.5	-2.0	18.5	24.0	29.0	23.0	17.0	3.5	-2.0	-7.5
	Min	-17.0	-25.5	-6.5	-6.0	7.5	12.5	15.5	15.0	6.0	-1.0	-6.5	-11.5
8	Max	-17.5	-14.5	-2.0	-2.0	22.5	24.0	25.5	27.0	16.0	0.5	-7.0	-7.5
	Min	-26.0	-26.0	-8.0	-10.0	8.0	12.0	16.5	13.0	8.0	-1.0	-11.5	-10.0
9	Max	-17.0	-10.5	6.0	5.0	23.0	19.0	20.0	21.0	12.5	0.5	-7.5	-6.0
	Min	-29.0	-19.5	-8.5	-10.5	13.0	7.0	15.5	13.5	5.5	-3.5	-13.0	-9.0
10	Max	-18.0	-10.5	6.5	6.5	23.0	14.5	20.0	18.0	15.0	3.5	-8.0	-13.5
	Min	-23.5	-12.5	-6.0	2.0	11.0	4.0	11.5	8.5	6.0	-4.0	-14.5	-15.5
11	Max	-12.0	-14.0	4.0	12.5	15.0	17.0	21.5	19.5	16.0	11.5	-3.5	-15.5
	Min	-20.0	-23.5	-6.0	-5.5	10.0	6.0	10.5	13.0	4.5	1.0	-13.5	-19.5
12	Max	-9.5	-13.5	3.0	7.5	21.0	18.5	27.0	15.5	17.5	5.5	-4.5	-19.0
	Min	-17.0	-22.5	-12.0	0.0	6.0	9.0	14.5	13.0	6.5	4.2	-5.0	-25.5
13	Max	-8.5	-13.0	2.5	9.5	17.5	19.0	24.5	13.5	17.0	11.0	-5.0	-21.0
	Min	-11.5	-18.0	-1.0	0.0	3.5	6.0	16.5	10.5	6.0	2.5	-9.5	-31.0
14	Max	-21.5	-14.5	-7.0	15.0	13.5	23.5	19.5	14.0	13.5	12.0	-6.0	-20.0
	Min	-28.5	-21.5	-14.0	-1.0	10.5	11.0	14.0	9.0	11.5	1.5	-10.0	-31.0
15	Max	-14.0	-15.0	-9.0	15.5	10.5	14.5	21.0	18.0	18.0	1.5	2.5	-21.0
	Min	-26.0	-20.0	-12.0	4.0	3.0	13.0	12.0	8.5	9.5	-1.5	-9.5	-26.0
16	Max	-11.5	-11.5	4.5	6.0	16.5	16.5	26.0	20.0	17.0	1.5	3.5	-21.5
	Min	-23.0	-17.0	-4.5	-5.0	5.5	12.0	10.0	9.5	14.0	-1.0	-6.5	-28.0
17	Max	-13.5	-11.5	3.0	10.5	22.5	17.0	25.0	19.0	22.5	10.5	-1.5	-22.5
	Min	-25.0	-19.0	-9.0	1.0	12.5	8.0	16.5	13.0	14.0	-1.5	-5.0	-26.0
18	Max	-24.0	-13.0	10.0	19.5	23.0	18.5	23.0	11.5	19.5	13.5	-10.5	-18.5
	Min	-33.0	-19.5	-3.5	1.5	6.0	9.0	15.5	8.5	9.5	0.5	-11.5	-26.0
19	Max	-30.0	-4.0	2.0	22.5	14.5	21.0	24.0	14.0	10.0	13.0	-10.5	-15.0
	Min	-43.5	-21.5	-2.5	8.0	5.5	9.5	13.5	7.5	8.0	0.5	-12.0	-26.5
20	Max	-6.0	2.0	0.0	19.0	11.5	22.0	20.0	16.0	6.5	15.0	-11.0	-17.0
	Min	-36.0	-9.0	-14.0	10.0	1.0	10.5	13.0	8.0	2.5	2.5	-14.0	-27.5
21	Max	-10.0	-3.5	8.0	18.5	18.0	22.0	18.0	19.0	11.0	15.5	-10.0	-3.0
	Min	-15.5	-5.0	-3.0	8.0	3.0	15.5	11.5	9.0	3.0	4.5	-17.5	-22.0
22	Max	-7.5	-2.5	5.5	12.0	23.0	11.0	20.0	15.0	12.5	14.5	-9.0	-5.5
	Min	-13.5	-7.5	-0.5	8.0	9.0	7.5	10.5	12.5	3.0	7.0	-14.5	-11.5
23	Max	-9.5	-1.5	7.5	5.5	25.0	17.0	23.5	15.5	6.5	15.0	-11.0	-19.0
	Min	-11.0	-5.0	0.5	4.5	10.5	5.5	14.5	12.0	3.0	8.0	-15.5	-23.5
24	Max	-14.0	0.5	6.0	3.5	18.5	18.5	22.0	22.0	6.0	11.5	-17.0	-21.0
	Min	-18.5	-5.0	-5.5	1.0	12.5	7.0	14.0	10.5	1.5	4.0	-26.5	-28.5
25	Max	-17.5	0.5	7.0	0.0	14.0	18.0	21.0	23.5	8.5	12.5	-14.0	-14.5
	Min	-25.5	-2.0	-3.0	-1.0	9.5	11.0	12.0	13.0	1.5	1.0	-26.0	-22.5
26	Max	-14.0	-13.5	3.0	5.5	18.5	14.0	21.5	21.0	11.0	10.5	-12.5	-14.0
	Min	-21.0	-17.0	1.5	-2.0	9.0	12.0	11.5	12.5	0.0	5.5	-21.0	-17.5
27	Max	-14.0	2.0	3.5	10.0	17.0	13.0	24.5	20.0	11.5	5.0	-21.5	-15.0
	Min	-17.0	-23.0	-1.0	-1.0	5.5	11.0	12.0	11.5	4.0	-0.5	-28.0	-22.0
28	Max	-14.0	7.0	-3.0	25.0	19.5	13.5	19.5	18.5	4.0	12.0	-22.0	-12.0
	Min	-26.0	-3.5	-6.0	3.0	7.0	11.0	14.0	7.0	2.5	2.5	-32.0	-22.5
29	Max	-9.5		0.0	25.5	17.0	16.5	22.0	20.0	6.0	11.0	-19.0	-11.5
	Min	-16.0		-8.0	11.5	10.0	12.0	11.5	8.0	2.5	4.5	-31.5	-15.0
30	Max	-28.5		3.0	15.0	15.0	24.0	23.5	21.5	4.5	9.0	-21.0	-8.0
	Min	-32.0		-7.0	4.0	10.0	12.0	12.5	10.5	1.5	-4.5	-27.5	-17.5
31	Max	-28.5		4.5		15.5		25.5	17.0		10.5		-18.5
	Min	-36.5		-7.0		9.5		19.0	14.0		2.0		-23.0
Monthly Mean		-17.8	-15.0	-3.1	4.8	12.9	13.2	18.5	15.8	9.9	5.5	-9.9	-18.0
Mean Max		-13.9	-10.6	1.3	9.5	18.0	17.5	23.2	19.6	13.3	9.5	-6.7	-14.4
Mean Min		-21.7	-19.4	-7.5	0.2	7.9	8.8	13.8	12.0	6.5	1.5	-13.0	-21.5

Maximum recorded temperature 29.0°C on July 7, 1985
Minimum recorded temperature -40.5°C on January 19, 1985
Mean temperature for 1985 1.4°C

Table 32. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1986. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	-15.5	-6.5	2.0	7.5	5.0	15.0	21.5	18.5	17.0	13.0	-2.0	-1.0
	Min	-27.0	-12.0	-5.5	1.0	-2.0	6.0	14.0	12.0	11.5	4.0	-4.0	-11.5
2	Max	-16.5	-3.5	0.5	7.0	9.0	17.5	20.5	20.0	17.0	8.5	-2.0	-3.0
	Min	-26.0	-7.0	-2.5	-0.5	-2.5	6.5	10.0	11.0	9.0	6.0	-9.5	-6.5
3	Max	-10.5	-3.5	1.5	10.0	16.0	17.5	28.0	25.0	17.0	7.5	-4.5	-8.0
	Min	-19.5	-5.5	-1.5	0.0	-1.0	12.0	12.0	13.5	15.0	1.0	-9.0	-13.0
4	Max	-12.5	-2.0	-5.0	10.5	23.0	16.0	26.5	22.5	15.5	9.5	3.0	-10.0
	Min	-17.5	-4.5	-10.0	-0.5	9.5	10.0	17.0	14.0	10.5	2.0	-13.0	-15.5
5	Max	-17.5	-3.5	-5.5	4.5	10.5	19.5	26.5	23.5	12.0	4.5	3.5	-6.0
	Min	-24.0	-5.0	-15.5	0.0	3.0	5.0	17.0	13.0	4.0	0.5	-3.0	-18.5
6	Max	-25.0	-4.0	-16.5	10.0	9.0	23.0	21.5	25.5	12.5	11.0	2.5	-12.0
	Min	-33.0	-5.5	-19.0	1.5	4.0	12.5	15.0	14.5	3.0	-2.0	-2.0	-22.0
7	Max	-15.0	-7.0	-12.5	12.5	9.5	19.5	23.0	22.0	17.5	11.5	-2.0	-9.5
	Min	-34.0	-13.0	-28.5	4.0	1.0	13.0	13.5	16.0	6.0	4.0	-6.0	-17.0
8	Max	2.5	-12.5	-8.0	8.5	9.0	19.0	23.5	25.0	13.0	5.5	-0.5	-5.5
	Min	-22.5	-18.0	-16.5	0.0	2.5	7.0	12.5	14.0	6.0	0.5	-7.0	-17.0
9	Max	2.5	-15.5	-4.0	11.5	18.5	24.5	24.0	20.0	15.5	6.5	-11.5	-14.0
	Min	-8.0	-22.0	-10.5	-2.5	6.0	10.0	13.0	12.0	3.5	-2.5	-13.0	-18.5
10	Max	-2.0	-15.5	1.0	16.5	14.5	20.0	22.0	17.5	[illegible]	7.5	-12.5	-14.5
	Min	-7.5	-27.0	-12.0	0.5	10.5	12.0	14.5	7.0	[illegible]	2.5	-15.5	-26.0
11	Max	7.0	-14.0	4.0	12.0	16.5	19.5	14.5	20.5	20.0	4.5	-12.5	-18.0
	Min	-7.5	-27.0	-5.0	0.5	11.0	8.0	12.5	9.0	8.5	1.0	-19.0	-23.0
12	Max	-12.5	-11.0	7.5	7.5	19.5	20.5	14.5	23.5	14.0	2.0	-16.5	-17.5
	Min	-15.5	-26.0	-7.0	-2.0	9.0	13.5	12.0	11.5	4.5	-3.0	-21.0	-24.5
13	Max	-9.5	-12.5	7.0	7.5	20.5	20.5	16.5	22.5	9.5	3.0	-8.0	-11.0
	Min	-21.0	-22.5	-5.0	-2.5	7.0	9.0	12.0	14.5	1.0	-1.5	-20.5	-27.0
14	Max	-8.5	-15.5	6.0	12.0	22.0	18.0	22.5	26.0	10.5	5.0	-8.0	-7.0
	Min	-21.5	-27.0	-4.5	2.0	9.0	6.5	12.0	17.0	5.5	1.0	-14.5	-12.5
15	Max	-6.5	-12.5	8.0	12.5	17.5	18.5	26.5	30.0	11.0	6.5	-6.0	-4.0
	Min	-14.0	-19.5	-4.0	1.5	8.0	7.0	15.0	15.5	3.0	-0.5	-14.5	-15.0
16	Max	-3.0	-3.5	6.0	13.0	14.5	16.0	24.5	23.5	14.0	4.0	-4.5	-4.0
	Min	-8.5	-21.0	-5.0	0.0	6.0	6.5	17.5	12.5	3.0	2.5	-12.5	-10.0
17	Max	-4.0	-4.5	1.0	14.0	8.0	21.5	23.5	19.5	10.5	8.5	-10.0	-5.5
	Min	-6.0	-10.5	-2.0	1.0	3.0	7.0	18.5	11.0	7.0	0.5	-17.0	-9.0
18	Max	-6.0	-14.0	3.0	15.0	13.0	29.0	29.0	23.5	13.5	15.0	-9.5	-2.0
	Min	-8.0	-17.0	-6.5	4.5	2.0	14.0	19.0	10.0	8.0	2.5	-22.0	-9.5
19	Max	-6.5	-16.0	-12.0	5.5	17.5	28.5	25.5	24.0	12.5	17.5	-5.5	-4.0
	Min	-8.5	-18.5	-21.0	3.5	4.0	16.0	16.0	13.5	6.0	6.0	-16.5	-8.5
20	Max	-3.5	-16.0	-2.5	-0.5	20.0	24.0	21.5	19.0	17.0	16.5	-5.0	-9.5
	Min	-7.5	-26.5	-23.5	-4.0	5.0	13.0	13.0	12.5	8.0	5.5	-12.5	-19.0
21	Max	-7.0	-8.0	4.5	4.5	21.5	21.0	24.5	20.0	12.5	19.0	-2.0	-2.5
	Min	-16.0	-27.0	-8.5	-9.0	9.5	12.0	13.0	9.0	9.0	4.0	-11.5	-12.0
22	Max	-14.0	-10.5	8.0	13.5	22.5	22.0	25.5	17.0	16.0	15.0	-3.0	1.5
	Min	-24.5	-18.0	1.5	-4.0	10.0	15.0	15.0	12.0	9.0	3.0	-8.0	-15.5
23	Max	-8.5	-9.0	-4.0	19.0	24.0	17.0	25.5	21.5	18.0	4.5	-7.5	-1.5
	Min	-17.0	-22.0	-18.0	6.0	11.0	8.0	17.0	10.5	8.0	3.0	-10.5	-12.0
24	Max	-4.0	-4.0	0.0	11.5	20.5	19.0	25.5	20.0	23.0	9.0	1.0	-3.0
	Min	-13.5	-18.0	-16.0	2.5	12.5	6.0	18.0	10.0	10.0	2.0	-13.0	-6.0
25	Max	-13.5	-0.5	1.5	9.0	27.0	26.5	24.5	20.5	14.0	11.0	2.5	-4.5
	Min	-17.0	-9.5	-4.0	3.0	14.0	12.0	14.0	11.0	11.0	-1.5	-2.5	-10.5
26	Max	-24.0	-4.5	-0.5	7.0	30.0	24.0	27.0	13.0	15.0	11.5	1.5	-3.0
	Min	-30.5	-12.5	-5.0	1.5	16.0	16.0	15.0	6.0	9.5	4.0	-9.0	-13.0
27	Max	-19.5	-6.0	8.5	6.0	30.5	22.5	26.5	14.0	12.5	7.5	4.0	1.5
	Min	-32.5	-18.0	-9.0	3.5	17.0	16.0	16.5	5.5	8.5	4.0	-2.0	-7.0
28	Max	-16.0	-1.5	12.0	7.0	32.0	23.0	25.0	18.0	15.0	7.5	-3.0	0.0
	Min	-22.0	-10.5	2.0	3.5	18.0	12.0	16.0	8.0	8.0	3.5	-6.5	-11.0
29	Max	-15.0		15.5	14.0	33.0	17.5	29.0	21.0	15.5	0.0	-6.5	-7.0
	Min	-19.5		1.0	-0.5	19.0	10.0	15.0	9.0	9.0	-2.0	-13.0	-8.5
30	Max	-12.5		10.5	10.0	32.5	22.5	25.5	24.0	13.5	10.0	-4.5	-2.5
	Min	-21.0		1.0	4.0	15.5	11.5	18.0	11.5	5.5	-7.5	-15.5	-10.5
31	Max	-8.0		11.5		19.5		21.0	23.5		2.0		-1.0
	Min	-21.0		5.5		10.0		13.0	16.0		-4.5		-7.0
Monthly Mean		-14.1	-12.8	-3.3	5.3	13.6	15.6	19.2	16.6	11.0	4.8	-7.8	-10.0
Mean Max		-9.8	-8.7	1.6	10.0	18.9	20.8	23.7	21.4	14.7	8.5	-4.3	-6.1
Mean Min		-18.4	-16.8	-8.2	0.6	8.2	10.4	14.7	11.7	7.3	1.2	-11.4	-13.8

Maximum recorded temperature 33.0 on May 29, 1986
Minimum recorded temperature -34.0 on January 7, 1986
Mean temperature for 1986 3.2°C.

Table 33. Summary of daily maximum and minimum air temperature in degrees Celsius for the year 1987. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	Max	-10.0	-6.0	-2.0	-1.5	15.5	24.0	20.5	24.5	18.0	14.5	12.0	-6.0
	Min	-20.5	-9.0	-8.5	-10.0	1.0	16.0	12.0	18.5	8.0	0.5	1.5	-9.5
2	Max	-6.5	-6.0	-4.5	1.5	14.5	21.0	19.0	29.5	17.0	7.0	8.0	-3.5
	Min	-17.5	-9.0	-7.5	-10.5	0.5	11.0	13.0	18.5	5.0	-1.0	6.5	-14.0
3	Max	-4.0	-7.0	0.0	5.5	18.0	14.0	24.5	23.0	23.0	16.0	5.5	-7.5
	Min	-9.0	-17.0	-15.5	-10.0	3.0	3.0	11.0	14.0	8.0	2.0	2.0	-15.5
4	Max	-0.5	-7.0	8.4	14.0	18.5	17.0	27.5	19.0	21.5	22.0	3.5	-4.0
	Min	-6.0	-18.0	-4.0	-2.0	4.5	9.0	13.5	7.0	15.0	5.5	-2.0	-11.0
5	Max	-0.5	0.0	11.0	18.0	23.5	19.5	24.5	24.0	17.0	10.0	1.0	-3.5
	Min	-4.0	-11.0	-4.0	2.0	9.0	6.0	15.5	11.0	12.0	2.5	-5.0	-12.5
6	Max	-3.0	5.5	13.0	19.5	17.5	22.0	29.5	21.5	21.0	5.5	5.0	-0.5
	Min	-4.5	-4.0	4.0	5.5	8.0	12.0	15.0	15.5	12.0	0.5	-5.0	-4.5
7	Max	-7.5	2.5	9.0	21.0	18.0	23.0	28.5	25.5	20.5	2.0	9.5	0.5
	Min	-11.0	-9.0	-0.5	6.0	5.5	12.0	19.0	13.0	12.5	-1.5	-3.0	-2.0
8	Max	-5.5	-5.0	-9.0	23.0	29.0	17.0	24.0	28.0	21.0	2.5	-2.0	0.5
	Min	-14.5	-21.0	-12.5	4.0	3.5	6.0	15.0	15.0	9.0	-0.5	-8.5	-0.5
9	Max	-6.0	0.5	-9.0	23.0	19.0	21.0	27.0	24.0	19.5	-0.5	-1.5	0.0
	Min	-17.0	-14.0	-21.0	7.0	12.0	8.0	15.0	15.5	8.0	-3.5	-7.0	-2.0
10	Max	-6.5	0.0	-4.5	13.0	22.5	22.0	26.0	26.0	12.0	3.0	2.0	0.0
	Min	-11.5	-5.5	-16.5	2.0	6.5	10.0	18.5	13.0	11.0	-3.0	-9.0	-4.0
11	Max	2.0	1.0	-2.0	11.5	13.0	25.0	21.0	27.0	13.5	9.5	9.0	-1.0
	Min	-10.5	-6.5	-10.0	1.0	6.0	10.5	15.0	17.5	9.0	-1.5	0.5	-2.0
12	Max	3.0	-6.0	-5.0	15.5	22.0	26.0	11.0	24.0	14.0	10.5	9.0	-3.0
	Min	-10.0	-13.0	-17.0	-0.5	3.0	15.0	12.0	9.0	9.0	-1.0	0.0	-4.5
13	Max	5.0	-11.0	0.0	12.0	22.0	31.5	18.0	20.0	15.0	15.0	3.0	-5.0
	Min	-3.5	-15.0	-11.5	4.0	13.0	14.0	7.0	9.0	9.0	4.5	-1.0	-7.0
14	Max	-7.0	-10.5	1.0	15.5	17.0	26.0	18.0	26.5	22.5	8.0	6.0	-4.5
	Min	-14.5	-21.0	-11.0	1.5	6.0	20.0	9.0	12.0	7.0	2.0	-5.0	-8.0
15	Max	-17.0	-2.5	2.0	10.0	23.5	29.0	21.0	26.0	23.5	8.0	5.5	-8.5
	Min	-27.0	-20.0	-10.0	3.0	9.5	13.0	9.5	18.0	11.5	-1.0	2.5	-10.0
16	Max	-12.0	-4.0	4.0	12.5	15.0	32.0	27.5	22.0	22.5	4.5	0.5	-9.0
	Min	-24.0	-11.0	-4.0	6.0	11.5	18.0	15.5	14.0	10.0	2.5	-1.0	-14.5
17	Max	-9.5	-2.0	6.5	21.5	12.5	29.0	26.0	18.5	18.5	7.5	-4.0	-7.0
	Min	-16.5	-11.5	-4.0	2.0	8.0	20.0	18.0	11.0	11.5	-2.0	-5.0	-17.0
18	Max	-11.0	-1.5	9.5	27.5	15.5	27.0	18.5	22.0	14.5	5.0	-0.5	-7.5
	Min	-14.5	-7.5	-1.5	9.0	3.5	18.0	14.0	10.5	10.5	2.5	-10.5	-11.5
19	Max	-14.0	1.0	7.0	25.5	10.5	28.0	20.5	20.0	17.5	3.0	-7.5	-5.0
	Min	-17.0	-4.5	0.5	15.0	5.5	15.0	13.5	10.0	8.5	-1.0	-11.0	-11.0
20	Max	-16.0	-2.0	13.5	6.0	13.0	29.0	26.0	22.0	15.0	1.5	-8.5	-7.5
	Min	-23.5	-6.5	1.5	3.5	8.5	16.5	13.0	12.0	11.0	-1.5	-13.0	-11.0
21	Max	-11.0	0.5	11.5	12.0	2.5	28.5	23.0	25.5	18.5	0.0	-0.5	-10.0
	Min	-21.5	-4.5	-0.5	-2.0	0.0	18.0	15.5	13.0	9.5	-4.5	-12.0	-12.0
22	Max	-17.0	-1.0	10.0	18.5	12.0	31.5	22.0	16.0	22.0	1.5	1.5	-5.5
	Min	-29.0	-5.0	2.0	2.0	-1.5	17.0	14.5	9.0	8.5	-3.0	-4.0	-19.0
23	Max	-26.0	1.0	4.0	13.0	16.0	26.5	24.0	16.0	16.0	0.0	-5.0	-6.5
	Min	-36.5	-4.5	1.5	3.5	2.5	20.0	19.0	7.0	11.0	-2.0	-9.5	-17.5
24	Max	-21.5	0.0	3.0	15.0	15.0	25.0	25.5	22.0	15.0	2.5	-4.5	-13.5
	Min	-33.0	-5.5	1.0	2.0	5.0	15.0	15.0	8.0	4.0	-2.0	-13.5	-18.0
25	Max	-17.5	1.0	1.5	17.5	17.5	20.0	28.0	18.5	17.0	7.0	-2.5	-7.5
	Min	-29.0	-2.0	-2.0	3.0	10.0	12.0	15.5	9.0	4.0	-2.0	-8.5	-17.5
26	Max	-9.5	3.0	5.0	20.5	14.5	14.5	26.0	21.0	19.5	5.5	-0.5	-2.5
	Min	-25.0	-3.5	-4.0	4.0	9.0	10.0	14.5	11.5	6.0	2.0	-7.0	-16.0
27	Max	-8.0	-5.0	3.0	13.5	24.0	22.0	29.0	22.5	20.5	1.5	-1.0	-4.0
	Min	-12.5	-9.0	-4.0	4.5	12.0	9.5	16.0	9.0	8.5	-0.5	-2.5	-8.0
28	Max	-6.0	-4.0	-7.5	17.5	26.5	21.5	30.5	23.0	15.5	3.0	-3.0	-7.0
	Min	-16.5	-7.5	-18.0	2.5	17.0	11.0	17.0	10.5	10.0	-4.0	-3.0	-13.0
29	Max	-3.0		-6.5	11.0	24.0	19.0	32.0	24.5	17.5	8.5	-2.0	-5.5
	Min	-14.0		-17.0	4.0	15.0	10.0	20.0	13.5	7.0	-2.0	-6.5	-14.0
30	Max	-6.5		-4.5	10.0	27.0	22.0	31.0	15.0	12.5	2.5	-4.0	-6.0
	Min	-8.0		-16.5	2.5	12.5	10.0	20.5	8.5	2.5	0.5	-6.0	-12.0
31	Max	-3.0		1.0		28.5		22.0	15.0		9.5		-20.5
	Min	-12.0		-11.5		15.0		15.0	5.5		-2.0		-24.5
Monthly Mean		-12.4	-6.0	-2.5	8.6	12.7	18.3	19.4	17.5	13.4	3.0	-1.8	-8.3
Mean Max		-8.2	-2.3	2.2	15.0	18.3	23.8	24.2	22.5	18.0	6.3	1.1	-5.5
Mean Min		-16.6	-9.8	-7.2	2.2	7.1	12.8	14.7	12.0	8.9	-0.4	-4.8	-11.1

Maximum recorded temperature 32.0 on June 16 and July 29, 1987
Minimum recorded temperature -36.5 on January 23, 1987
Mean temperature for 1987 5.2°C.

Table 34. Summary of monthly mean maximum, mean minimum, mean, and extremes for air temperature observed at ELA from 1969 to 1987.

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean Annual	Extremes
1969	Mean Max							23.4	25.0	16.7	4.8	0.3	-6.8		
	Mean Min							13.0	14.6	8.9	-0.6	-7.5	-13.0		
	Mean							18.2	19.8	12.8	2.1	-3.6	-9.9	-	
1970	Mean Max	-14.2	-10.6	-1.9	5.2	12.9	23.6	25.4	23.6	16.6	8.4	-1.5	-10.7		Max 33.5 on Aug 03
	Mean Min	-21.7	-21.9	-14.9	-3.8	2.2	12.0	15.4	12.8	7.4	1.9	-7.6	-19.4		Min -38.0 on Jan 17
	Mean	-18.0	-16.3	-8.4	0.7	7.6	17.8	20.4	18.2	12.0	5.2	-4.6	-15.1	1.6	
1971	Mean Max	-17.1	-7.1	-0.6	7.9	15.3	22.4	21.3	22.5	17.4	10.0	-1.9	-9.8		Max 30.0 on Aug 09
	Mean Min	-25.0	-17.5	-11.4	-2.4	2.8	12.4	11.8	12.2	9.7	3.6	-6.6	-17.9		Min -36.0 on Jan 12
	Mean	-21.1	-12.3	-6.0	2.8	9.1	17.4	16.6	17.4	13.1	6.8	-4.3	-13.9	2.1	
1972	Mean Max	-16.6	-12.4	-3.2	7.1	20.4	22.7	22.4	23.2	14.3	6.5	-2.2	-13.6		Max 31.0 on May 18
	Mean Min	-27.0	-22.7	-12.3	-3.4	7.7	11.2	11.9	12.7	5.2	-0.9	-8.8	-22.2		Min -41.0 on Jan 15
	Mean	-21.3	-17.6	-7.8	1.9	14.1	17.0	17.2	18.0	9.8	2.9	-5.5	-18.0	0.9	
1973	Mean Max	-8.0	-7.6	4.7	7.3	16.0	20.3	23.2	24.5	15.9	11.1	-2.7	-11.4		Max 30.5 on Aug 28
	Mean Min	-18.0	-19.4	-7.4	-3.4	4.2	10.0	12.9	14.3	6.4	4.2	-8.2	-18.7		Min -35.5 on Jan 08
	Mean	-13.0	-13.5	-1.4	2.0	10.1	15.2	18.1	19.4	11.1	7.7	-5.5	-15.1	2.9	
1974	Mean Max	-15.7	-7.9	-3.9	7.0	12.8	21.6	26.6	19.3	13.0	8.9	-0.3	-5.3		Max 37.3 on Jul 07
	Mean Min	-24.8	-20.4	-14.7	-3.3	2.5	10.0	15.7	11.4	4.0	1.4	-5.9	-12.7		Min -40.5 on Jan 01
	Mean	-20.3	-14.2	-9.3	1.9	7.7	15.8	21.2	15.6	8.5	5.2	-3.1	-9.0	1.7	
1975	Mean Max	-11.2	-9.3	-4.4	5.8	18.2	21.2	17.0	21.3	14.3	10.0	1.5	-9.8		Max 35.5 on Jul 30
	Mean Min	-19.4	-19.4	-14.6	-4.4	6.3	11.3	15.9	11.8	5.5	2.2	-5.4	-19.9		Min -35.5 on Feb 09
	Mean	-15.3	-14.4	-9.5	0.7	12.3	16.3	16.5	16.6	9.9	5.1	-2.0	-14.4	1.9	
1976	Mean Max	-13.4	-5.3	-2.4	10.7	17.2	23.2	25.8	24.4	17.4	5.9	-3.8	-15.0		Max 34.5 on Sep 07
	Mean Min	-22.2	-15.6	-14.0	-0.8	4.5	12.9	13.9	12.9	6.5	-1.0	-10.9	-24.9		Min -35.5 on Jan 07
	Mean	-17.8	-10.5	-8.2	5.0	10.9	18.1	19.9	18.7	12.0	2.5	-7.4	-20.0	1.9	
1977	Mean Max	-16.0	-7.4	2.5	11.2	21.7	20.0	24.2	18.9	14.9	10.9	-2.2	-12.3		Max 32.0 on Jul 18
	Mean Min	-24.9	-16.4	-7.0	-0.8	10.3	10.9	13.3	9.1	7.1	1.5	-7.5	-19.3		Min -38.0 on Jan 16
	Mean	-20.5	-11.9	-2.3	5.2	16.0	15.5	18.8	14.0	11.0	6.2	-4.9	-15.8	2.6	
1978	Mean Max	-15.4	-9.5	-1.0	7.4	18.5	20.4	22.7	21.1	16.9	9.8	-3.3	-12.7		Max 32.0 on Aug 12
	Mean Min	-23.9	-19.8	-12.3	-3.4	7.0	9.1	13.3	12.9	9.3	2.4	-9.6	-21.7		Min -34.5 on Feb 02
	Mean	-19.7	-14.7	-6.7	2.0	12.9	14.8	18.0	17.0	13.1	6.1	-6.5	-17.2	1.6	
1979	Mean Max	-16.8	-13.9	-3.0	5.2	11.8	20.8	25.7	21.6	17.1	6.1	-1.9	-5.6		Max 32.0 on Jul 09
	Mean Min	-26.3	-22.8	-11.3	-4.8	2.3	9.6	14.9	11.4	7.5	0.3	-8.0	-14.2		Min -38.5 on Jan 01
	Mean	-21.6	-18.4	-7.4	0.2	7.1	15.2	20.3	16.5	12.3	3.2	-5.0	-9.9	1.0	
1980	Mean Max	-11.4	-9.2	-2.7	12.9	20.4	20.3	25.2	22.0	15.5	6.2	0.2	-11.4		Max 32.0 on May 22
	Mean Min	-21.2	-18.8	-15.4	0.6	8.0	10.2	14.9	13.7	6.8	-0.1	-5.4	-20.4		Min -33.5 on Jan 09
	Mean	-16.3	-14.0	-9.1	6.8	14.2	15.3	20.1	17.9	11.2	3.1	-2.6	-15.9	2.5	
1981	Mean Max	-9.6	-6.0	1.8	9.4	17.3	20.4	25.8	24.2	16.1	6.7	3.5	-9.3		Max 34.0 on Jul 06
	Mean Min	-18.4	-14.9	-8.6	-1.4	5.2	10.4	16.0	15.2	7.9	0.9	-2.2	-15.2		Min -35.5 on Feb 11
	Mean	-14.0	-10.5	-3.4	4.0	11.3	15.4	20.9	19.7	12.0	3.8	0.7	-12.3	4.0	
1982	Mean Max	-19.0	-10.0	-3.0	7.3	17.4	18.4	25.0	21.0	15.9	9.1	-2.6	-6.9		Max 36.[illegible] on Jul 20
	Mean Min	-28.6	-18.5	-12.0	-3.6	8.2	9.2	15.0	12.1	8.2	3.6	-8.9	-13.6		Min -3[illegible] on Jan 17
	Mean	-23.8	-14.3	-7.5	1.9	12.8	13.8	20.0	16.6	12.1	6.4	-5.8	-10.3	1.8	
1983	Mean Max	-8.8	-6.0	-0.8	7.5	13.9	21.2	26.1	27.0	17.4	8.7	-0.5	-15.8		Max 33.5 on Jul 15
	Mean Min	-15.9	-12.9	-8.0	-2.0	2.7	11.6	17.0	16.8	9.4	2.5	-4.0	-23.2		Min -39.5 on Dec 19
	Mean	-12.4	-9.5	-4.4	2.8	8.3	16.4	21.6	21.9	13.4	5.6	-2.3	-19.5	3.5	
1984	Mean Max	-12.6	-2.6	-2.8	12.9	14.8	21.3	24.6	26.4	14.5	10.0	-0.8	-11.9		Max 35.5 on Aug 28
	Mean Min	-22.5	-9.5	-12.8	1.8	4.5	12.1	14.9	15.8	6.5	3.2	-7.0	-20.2		Min -39.5 on Jan 10
	Mean	-17.6	-6.1	-7.8	7.4	9.7	16.7	19.8	21.1	10.5	6.6	-3.9	-16.1	3.6	
1985	Mean Max	-13.9	-10.6	1.3	9.5	18.0	17.5	23.2	19.6	13.3	9.5	-6.7	-14.4		Max 29.0 on Jul 07
	Mean Min	-21.7	-19.4	-7.5	0.2	7.9	8.8	13.8	12.0	6.5	1.5	-13.0	-21.5		Min -40.5 on Jan 19
	Mean	-17.8	-15.0	-3.1	4.9	13.0	13.2	18.5	15.8	9.9	5.5	-9.9	-18.0	1.4	
1986	Mean Max	-9.8	-8.7	1.6	10.0	18.9	20.8	23.7	21.4	14.7	8.5	-4.3	-6.1		Max 33.0 on May 29
	Mean Min	-18.4	-16.8	-8.2	0.6	8.2	10.4	14.7	11.7	7.3	1.2	-11.4	-13.8		Min -34.0 on Jan 07
	Mean	-14.1	-12.8	-3.3	5.3	13.6	15.6	19.2	16.6	11.0	4.9	-7.9	-10.0	3.2	
1987	Mean Max	-8.2	-2.3	2.2	15.0	18.3	23.8	24.2	22.5	18.0	6.3	1.1	-5.5		Max 32.0 on Jun 16
	Mean Min	-16.6	-9.8	-7.2	2.2	7.1	12.8	14.7	12.0	8.9	-0.4	-4.8	-11.1		Min -36.5 on Jan 23
	Mean	-12.4	-6.1	-2.5	8.6	12.7	18.3	19.5	17.3	13.5	3.0	-1.9	-8.3	5.1	
Mean monthly		-17.6	-12.9	-6.0	3.5	11.3	16.0	19.2	17.8	11.5	4.9	-4.5	-14.1		

Average mean annual temperature 2.4°C Maximum 35.5 on Jul 30, 1975 Minimum -41.0 on Jan 15, 1972

All temperatures are degrees C.
All values are based on readings taken twice daily (morning and evening).

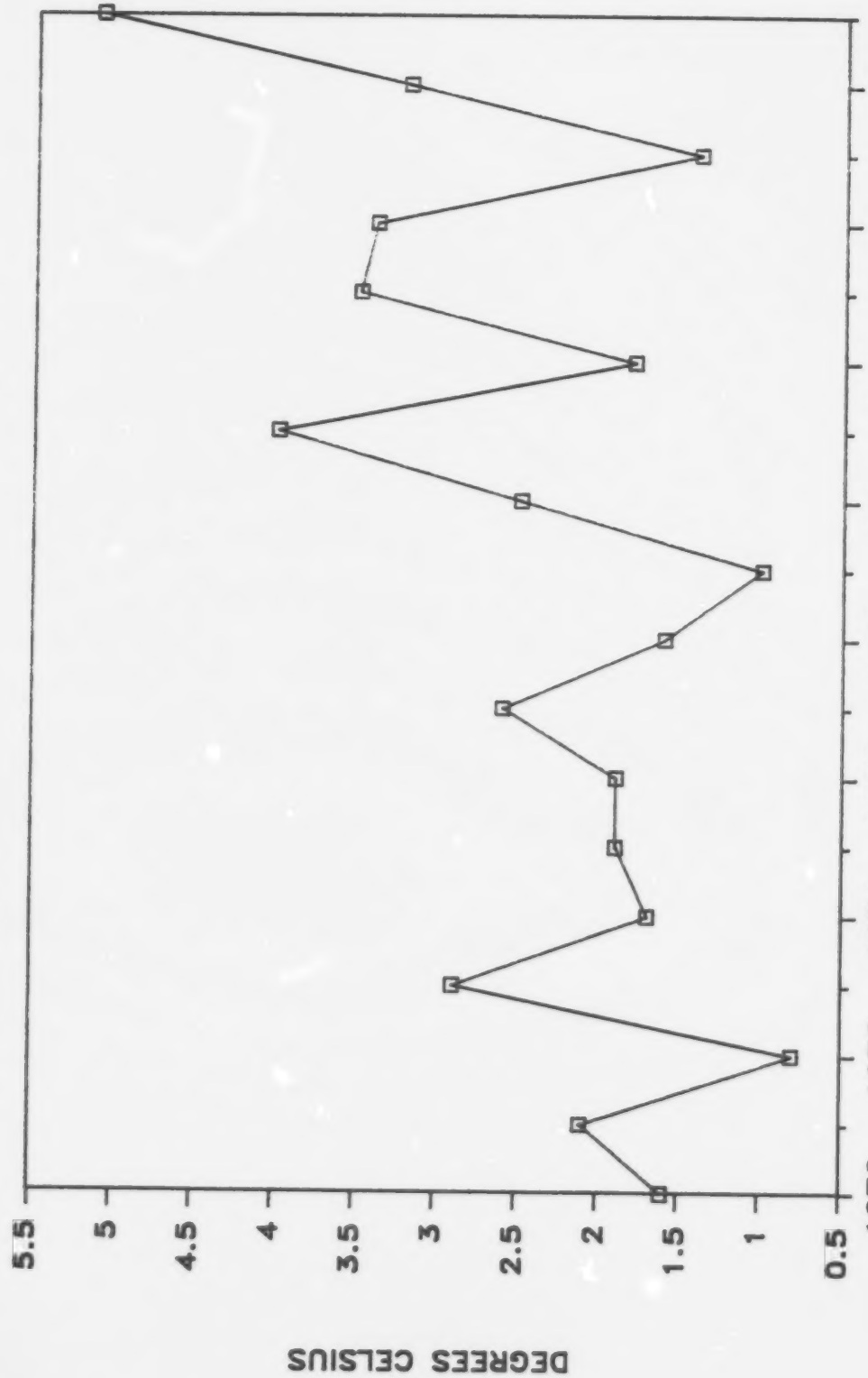


Fig. 7. Mean annual air temperature for the Experimental Lakes Area for the 18 year period, 1970 to 1987.

APPENDIX 4

SUMMARY OF WIND DATA

The wind data reported in this section were measured at the meteorological site at Station 1 (Fig. 1) located 366 m west of Rawson Lake and 43 m above the lake surface. The site is well exposed on a large hill and bedrock outcrop. A bedrock ridge approximately 15 m higher than the met. site and running almost north-south lies 200 m west of the tower. The wind tower and anemometer remained unchanged until May 20, 1986 when the tower was moved approximately 75 m southwest to eliminate possible interference with nearby precipitation chemistry and air quality sampling equipment. The tower height was also reduced at that time from 12.2 m to 10 m and is now consistent with the internationally accepted height for exposure of wind instruments.

An Atmospheric Environment Service (AES) type 45B anemometer and anemograph are used at ELA. The anemometer consists of a set of 3 conical cups mounted with a directional vane, and is wired to the anemograph recorder where a daily chart provides a record of each mile of wind and its direction. Wind speed is summarized for each hour along with its prevailing direction during the hour. Direction is reported to the 8 points of the compass, and is the direction from which the wind is blowing with respect to true north rather than magnetic north. The wind is seldom steady and usually fluctuates in velocity over a given period of time. The 45B anemometer simultaneously records each mile of wind and its direction on completion, and therefore does not record gusts.

A problem of directional bias in favour of the non-cardinal (NE, NW, SE, SW) wind directions is inherent in the MSC Type 45B wind equipment. Koren (1971) has evaluated the problem and suggested that this bias is due to the relatively long lag time interval during which the wind direction is sampled. Users are cautioned that the directions presented here should be used in a general manner only and not be interpreted as being exact.

Data presented in this report are mean daily wind velocity in kilometres per hour and prevailing direction for each day (Tables 35 to 40). These daily velocities are based on the sum of the hourly values for that day divided by the number of hours. The daily prevailing direction is determined from the hourly prevailing directions for that day. Monthly mean hourly velocities and prevailing directions are also included. Hourly values, frequency in hours for each direction, and prevailing directions are available but have not been included in this report. All data are abstracted on site on a monthly basis and the chart originals are filed with AES (Toronto). This data is also reported by and available from AES.

Table 41 provides an historical summary of monthly and annual mean velocity in kilometres per hour for the entire 1969 to 1987 period of record. Figure 8 provides a graph of annual mean wind speed for ELA and Fig. 9 shows the same information for both ELA and Kenora (55 km WNW of ELA). In both figures, all ELA data is for 12.2 m and Kenora is for 10 m.

The entire Lake 239 watershed, including the area around the meteorological site, was burned by forest fire June 19, 1980 (Beaty 1984 and Schindler et al. 1980). Prior to this fire, the hill slopes surrounding the 65 by 100 m site were covered with a mature mixed forest (pine, spruce, birch and poplar) averaging approximately 10 to 15 m in height. The fire consumed all ground vegetation and defoliated the mature trees leaving most of these standing. Over the next 5 to 6 year period, these dead trees fell down as forest regeneration occurred. By the fall of 1988, the average tree height of the surrounding forest was 2.8 m.

Figure 8 shows an increasing trend in the wind speed for the ELA site beginning in 1980. It is possible that this major change in forest cover may have altered the terrain roughness surrounding the site and thereby may have affected the wind velocities. However, Fig. 9 shows that the ELA data was less variable than that of nearby Kenora and this trend is less pronounced. Kenora wind speeds are 4.1 kph higher on average than those of ELA partly because of the greater exposure and terrain flattness of the airport location. Users of this data are therefore cautioned as to the possibility of a resulting fire affect on the wind velocity data for this station.

It should also be noted that the wind reported here is monitored from a land based station as described above. The wind velocities may be unlike those which occur directly over ELA lakes. Solinske (1982) addressed this problem as being the result of variability in fetch, atmospheric stability and topographic roughness.

Table 35. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1982.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	SE 4.2	SW 8.0	NW12.8	E11.3	NE 6.6	NW13.7	SW 6.3	NE15.8	NW 7.5	NE10.0	SW 5.2	SE 9.4
2	SE 9.4	NW 9.5	NE 9.2	NE21.1	SE11.6	N 6.8	NE11.7	SE13.7	NW12.5	SW11.1	N11.7	SE13.0
3	W 8.4	SW 6.1	S 4.8	NE23.8	S16.1	SW14.6	SE 7.9	SE 5.2	NW 9.9	NW 8.0	NE19.6	SW18.9
4	NE 7.7	W 6.9	NW 8.1	N10.2	S14.5	SW14.1	S10.0	S10.9	SW15.2	SW14.4	NE20.0	SW11.3
5	SE 9.5	SW 6.5	SW13.9	N 9.0	SW10.0	SW16.8	SW15.0	N 7.4	NE12.3	NE11.7	NE 9.8	NW 9.4
6	NW 9.4	SW13.2	NW12.4	SW 6.0	SW13.5	SE16.3	SW12.5	SW 5.9	S 8.5	NE25.8	SW 9.4	NW14.6
7	SW 5.6	NW10.0	NW 3.7	SW 5.2	SW15.8	NW13.1	NW15.0	SW11.5	SW16.6	NE10.1	NW11.5	NW11.5
8	NW10.0	NW 6.6	NW 7.8	SW 7.7	NE 7.0	NW 5.4	SW11.3	NW20.0	SW14.4	E 7.8	NW 8.4	NW10.2
9	NW13.7	SW11.8	SW12.4	SW10.5	SE11.9	NE11.6	SE 7.0	NE16.9	SW18.0	NE18.8	SE 6.2	SW19.8
10	NW20.7	SW12.4	NW 9.2	NW10.5	SE11.4	NW16.0	N 6.8	N 5.9	S10.9	NE16.4	E 6.2	NW15.0
11	NW12.1	NW 9.2	S10.2	S12.7	NW 9.1	NW10.2	N 9.4	S 7.6	NW 9.4	NE14.7	SW 9.2	W 9.7
12	S 3.6	SW 5.3	S19.0	SW12.5	SE11.1	NW10.7	NW 7.4	S15.3	NE 8.2	NE10.4	NW18.6	S 9.3
13	E 4.2	NW 3.2	NW19.3	NE 9.9	NE 8.4	N 6.0	NE 9.6	SW10.7	NE 9.0	SW 8.8	W 5.9	NE 9.2
14	SW10.0	S14.3	S 7.8	S14.3	NE11.1	NE 8.6	NE 6.3	S 9.0	NE16.4	NW13.3	SW12.8	NE 7.8
15	NW14.6	NW 6.4	S15.0	S 8.4	NE19.8	NE11.3	SE 8.6	SW13.9	E 6.1	N16.0	SW11.9	W 2.5
16	NW10.7	SE12.7	NE 9.8	N10.4	NE15.0	SW10.0	S 9.3	NW 9.2	SW10.5	SE 6.6	SW 6.9	S12.9
17	S 4.4	S18.9	NE12.4	N10.1	SE 8.7	NE12.1	SW19.9	NW 5.2	N 9.2	SE14.6	SE 6.4	SW20.8
18	SE 4.6	NW 9.7	NE12.5	E10.2	NW 7.7	NW 6.1	NW11.5	W 7.7	SW11.0	NE14.6	S13.3	NW 7.6
19	NW 7.8	SW 9.2	E13.0	NE14.3	NE 7.8	SW 8.2	S 9.6	NW12.5	NE14.0	NE12.9	S11.6	NW 7.7
20	NE 6.6	NW 9.4	NE13.4	NE10.7	NE12.2	NW 9.8	SW12.8	NW 8.8	NE 4.9	NE12.5	NW14.4	N 5.1
21	NE 8.3	SE12.4	NW 8.0	NW 9.2	NE 8.4	NE10.0	N10.5	S 5.2	SW 9.8	SW 9.6	SW15.5	SE 6.8
22	NE15.6	NW12.8	SW10.0	SW14.3	S 5.9	N 4.8	NE 9.2	NW 8.3	SW13.5	S 9.0	NW 5.1	E 9.4
23	NE24.1	NE 8.2	SW10.2	SW10.9	SW 7.6	S12.0	S12.9	N 7.3	NE12.2	SW13.5	NW 6.7	SE 8.8
24	N 6.1	NE 8.2	NW11.0	SW15.1	SW 8.4	NW13.3	NW11.1	NW 9.2	NE12.6	SW10.2	SW13.9	NE10.9
25	SW 5.8	SW 8.6	N 9.6	NE13.3	SW 8.7	SW 6.5	NW 9.6	NW10.5	SW11.5	SE 7.8	NW 6.2	NE 9.7
26	SW13.6	N 7.4	NE 7.8	NW 8.4	S 6.5	SW13.9	NW 8.3	NW10.9	SW13.7	S11.2	NW 7.3	SW10.0
27	SW16.2	E 9.7	SW10.2	SW10.7	S 6.4	NW11.3	N 4.6	NW12.0	NE20.2	S15.5	SW14.6	SW 8.2
28	SW16.0	S15.4	SW17.0	SW 9.6	S 8.5	NE 9.6	SW 6.7	S 8.2	SE19.9	S 8.6	S 5.6	NW13.9
29	SW 9.1		S16.0	SW15.5	S 8.8	NE12.2	NW 9.1	NW11.1	SW15.4	SW11.3	S 4.2	NW 7.8
30	NW 7.2		SE12.5	SW10.9	SE 6.9	NE 8.6	N 9.1	NW 6.9	SW13.4	SW15.4	S 9.6	SW 7.6
31	SW 9.8		NW18.8		NW 7.4		SW12.9	S 8.0		SW10.5		SW 6.6
Mean	10.0 NW	9.5 SW	11.5 NW	11.6 NE	10.1 NE	10.8 SW	10.1 SW	10.0 NW	12.2 SW	12.3 NE	10.3 SW	10.5 SW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value.

Table 36. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1983.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	NW10.6	SW 4.6	E 4.8	NE15.9	NE 7.5	SW 6.9	NE10.5	NW 8.1	SW14.0	NW 7.0	SW10.8	SW12.5
2	SW 8.9	NE14.2	E 4.8	NE16.9	NE 7.8	S 5.8	SE11.8	SW13.0	S13.7	NE 6.5	NE19.6	NW 8.5
3	SE11.7	N 9.5	SE11.7	NE21.5	NW12.0	NE 4.1	Sw 7.9	S 4.1	SW17.9	NE13.5	SE12.6	SW19.0
4	SW15.3	NW 2.7	E 9.8	NE16.1	N 9.3	NE11.3	NW14.9	SW11.5	SW 9.4	SE10.0	SW20.8	NW 7.8
5	SE 5.0	NE 6.6	NE17.0	NE10.4	N 8.3	NW10.5	SW 8.7	SW12.1	SW11.0	NW11.5	SW14.6	E 3.1
6	N 8.3	SW 5.1	NE21.3	NE 9.3	NE15.5	NW17.3	SW13.8	N 9.4	SW12.3	NW10.2	SW 6.2	S 3.9
7	NW 7.2	S 7.8	NE13.9	NE 6.5	NE12.9	N 8.2	SW 9.3	NW15.6	SW 9.4	NE 6.9	SW17.4	SW 7.3
8	SW21.3	NE13.1	NE16.5	SW 4.6	S 9.9	SE11.4	NE12.7	NW12.0	NE11.7	SW 8.9	NW13.9	W 7.8
9	SW13.0	SE 7.3	NE15.8	NE 8.6	S19.0	S 7.0	SE13.6	SW 7.8	NE12.2	S18.8	NE 9.9	SW 8.2
10	N 8.2	S 8.5	NE 7.8	NE13.4	S11.9	S17.2	S16.1	NE12.3	SW19.5	SW19.7	NE 9.7	E11.0
11	NE11.3	S 3.8	SW14.0	NE 8.6	NE10.7	SW15.0	SW20.5	SW 5.0	NW10.6	SW11.4	NE 5.8	NW 8.4
12	SW10.4	SW14.5	S 9.4	NE10.0	NE23.0	S18.3	SW12.4	SW15.4	N 5.9	NE14.1	S10.2	N 5.7
13	SE 8.9	SW16.6	SW13.2	NE21.8	SW18.9	S15.8	SW16.1	NW12.2	NW 8.7	NE14.6	S12.0	NE 6.8
14	NE12.6	N 6.0	NE14.4	NE25.4	NW14.7	N 7.2	E 6.4	SW 6.3	SE 4.3	N10.0	NW 6.4	NE16.9
15	S 8.1	SW 9.7	NE11.0	N14.5	NE 9.7	NE10.9	SW12.0	SW13.0	SE12.6	SE13.5	NE11.0	NE18.3
16	N 8.5	NW11.2	NW 4.9	NE 7.7	SW 6.2	NE12.8	SW11.4	NE 8.0	SE10.9	NW 9.5	SE 8.4	W 4.9
17	NE 9.1	NE 6.1	NE 9.0	S 5.0	SW11.3	SW 4.0	SW 7.0	SW10.7	S19.8	NW11.0	S14.3	W 6.1
18	S 9.8	NE12.2	NE11.3	S 4.3	SW10.6	S10.0	SE 6.5	SW10.7	SW23.2	E 8.7	S11.6	NW 6.0
19	S16.6	NE 8.0	NE17.0	SW 7.2	NE12.0	S15.4	SW 5.3	NW18.1	SW13.7	S 9.9	SE13.6	SW 5.5
20	S12.4	NW 6.5	NE13.8	SW 4.8	NE 8.2	S16.0	SW 5.9	S 6.2	NW13.4	S13.5	NE20.4	SW 4.4
21	S12.6	S10.5	NE13.1	N 9.2	SW14.4	SW 9.1	NE13.8	SE 7.8	NW13.9	SW10.2	NW10.8	NE 8.1
22	SW 8.1	NW10.7	N 6.8	NE12.4	NW11.5	SW15.2	SW14.8	NW 9.8	NW11.8	S 3.8	E 8.3	NW12.1
23	SW 3.5	N10.4	E 5.6	N 6.6	N 7.9	NW 7.1	NW13.6	SW 5.6	SW13.9	S13.4	NE14.0	NW13.0
24	NW12.0	NE 6.4	S 8.9	SW 7.7	NE15.2	SE 7.8	SW 5.7	S 7.4	SW14.3	SW10.8	NW19.8	NW16.0
25	N 7.6	S14.7	SW11.8	S12.3	N 7.4	M15.7	SW 6.4	SW12.8	SW 5.6	SW 9.5	SW14.4	SW11.7
26	W 7.2	SW12.8	NE 9.5	SW12.6	S 9.6	NE14.1	SW14.1	NW 9.2	SW 7.3	NW 9.3	NE12.2	NW10.3
27	S12.6	NE11.4	NE 9.7	SW13.5	SE 7.0	E12.2	SW 9.4	S 4.5	S15.3	SW10.9	NE12.2	W 6.8
28	SW11.0	NE10.1	SE 6.1	SW 7.8	NW12.6	SE 5.5	SW 9.3	SW 8.0	NW16.2	NW16.0	NE18.2	NW 9.1
29	NW 7.2		S13.4	W 9.4	NE18.7	SE10.6	NW 6.8	NE 4.8	NE13.5	SW 8.6	NE18.5	SW14.0
30	N 8.4		S13.0	NE 6.2	NE20.1	SW10.1	SW 8.0	N 5.0	NE14.7	SW13.7	N11.5	SW 9.7
31	SW 5.7		SE13.9		N10.9		NW 8.9	SW11.1		SW16.0		NE11.5
Mean	10.1 SW	8.9 NE	11.4 NE	11.0 NE	12.1 NE	11.1 SW	10.8 SW	9.6 SW	12.7 SW	11.3 SW	13.0 NE	9.5 NW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value .

Table 37. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1984.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	S 8.0	E 7.3	NE 9.2	NW 6.5	NW10.5	NW11.8	SW 8.6	E 8.7	NE11.1	SW14.7	W22.5	NE 4.6
2	SW14.4	NE10.6	SW 5.0	NE 7.1	NE 6.5	SW15.2	SW10.9	S 4.3	NE 6.0	SW16.5	SE13.5	NE 5.7
3	SW16.5	N 9.3	SW 4.9	N 3.6	NE 5.8	NW12.4	NW13.4	SW 5.2	N 6.5	NW 8.1	S13.7	NW10.5
4	S11.3	NE13.7	N 4.1	N 5.3	NE 8.1	NE11.5	NW10.6	S 5.8	N 8.3	E17.6	NW12.6	SW15.4
5	SW13.0	NE10.3	NE18.8	N 6.8	NE10.8	NE11.7	NE13.8	SW 6.1	S 7.5	S14.6	NW 8.4	NW17.5
6	E 4.6	W 7.6	NE 5.6	SE 7.8	S 8.1	NE16.8	N11.0	SW 7.3	S20.1	S 8.0	SW 6.3	SW14.8
7	NW12.9	SW 5.5	E 8.0	S14.4	NW14.1	SW13.7	SW 9.0	SW 5.7	SW12.8	NE 7.6	SE 9.4	SW15.2
8	SW 6.3	SW10.0	N 7.3	S13.1	NW23.0	NE18.3	SW13.2	NW10.8	SW11.2	NE 5.0	NW12.8	SW 8.5
9	NW11.5	SW12.3	W 9.9	S14.5	NE 6.8	NE16.0	SW11.7	NW13.3	NE 8.4	S 8.5	NE 9.6	NW 8.5
10	W 2.5	SW 6.2	NW21.9	S15.6	S 9.5	NE14.6	NW 6.9	NE10.4	NE 5.8	S 9.0	NE10.5	S15.8
11	NE 6.9	SW 7.5	SW10.8	SE14.4	NW12.9	SW12.8	NW10.8	S11.4	SE 5.1	S18.8	S10.8	NW14.0
12	NE 9.8	NE18.8	S 9.1	E18.1	NE 3.9	NE10.0	N 7.7	S10.3	SE12.5	S17.6	S 8.8	NE 8.2
13	NE12.8	SW 8.0	N 2.0	NE20.3	NE10.5	NE11.0	S 9.0	S14.0	NW12.5	SW13.2	S11.0	S 7.5
14	SW 7.1	SW 9.5	SE 8.0	NE14.0	NE 9.5	S 6.0	SW14.9	SW18.8	N10.1	NE 7.0	SE10.1	S11.8
15	SW17.0	SE 9.3	NE17.5	NE15.8	SE11.6	S11.7	NW15.2	NW11.2	W10.6	SE24.1	NW16.5	S17.4
16	NW10.5	NE 7.3	NE11.7	NE16.0	S18.4	SW12.3	NW10.6	S10.7	SW13.9	S21.2	NW14.0	NE18.1
17	W 7.9	E 4.5	SE11.0	NE13.8	SW21.3	SW 8.8	NE13.7	NE11.4	M16.6	SW18.3	NW 8.1	NE 9.5
18	SW 6.7	N10.5	S 4.8	NE11.0	NW18.6	NW14.4	SW15.3	NE 9.0	NW12.3	S14.5	N 8.1	SW10.4
19	NW 7.8	SW 9.1	S 3.3	E 7.8	NE 8.8	SE 3.9	NW10.3	SW11.5	NW11.5	NE28.5	NE 6.0	SW13.7
20	SW10.6	NW 7.4	N10.0	E 8.5	SE11.3	S 8.3	NW 6.5	SW14.7	NW 9.5	NE 7.6	S 9.4	SE10.0
21	SW12.0	SW11.7	NE19.4	S 7.7	SW13.4	SE12.0	S13.8	SW15.9	E19.1	SE 1.2	S15.9	NW19.1
22	S 7.1	SW 7.8	NE14.5	S 5.4	NW13.5	S11.1	NW12.3	NE12.8	SW23.7	NW 8.1	SW 9.6	NW10.5
23	SW15.1	NE13.8	SW 9.0	SW 9.1	NW12.0	SW16.5	NW11.8	SW 7.0	SW16.8	SW14.1	SW17.8	SW10.6
24	SW16.7	N 8.0	E 4.7	S10.9	NE16.6	NW13.3	NE 5.8	S17.0	NE19.8	SW14.8	SW13.8	SW14.1
25	NW 7.0	NE 5.5	SE 8.4	SW10.1	NE13.3	SW14.3	W 7.2	SW15.7	NE12.2	SE14.0	S10.8	NW 9.8
26	NW10.6	SW 6.0	SE10.6	NE18.0	NW10.9	N12.5	NE 8.9	SW17.6	SW 9.4	SW18.8	SE 6.8	E 8.7
27	S 9.3	NE 5.2	E 8.3	NE19.8	NE10.1	N13.5	E 5.7	SW11.8	W 8.2	NW13.5	S 8.3	E 3.7
28	N 8.3	NE12.5	E10.7	SW19.8	NW 5.6	E 9.0	SW 9.1	SW12.5	W10.8	NW[illegible].5	NW12.8	NE17.4
29	N 5.0	NE 8.5	NE 9.8	NW15.4	SW 7.1	S 5.9	SW11.2	SW14.7	SW10.8	SW13.5	NE11.0	N 9.1
30	S 7.3		N 7.5	NW19.7	SW15.4	SW12.8	SW12.4	NW16.5	W 6.5	SW12.3	NE 9.8	SW 8.4
31	SW 8.4		N 5.1		S13.8		NE 7.8	NW10.5		SE13.3		W 2.3
Mean	9.8	9.1	9.4	12.3	11.7	12.1	10.6	11.4	11.7	13.5	11.3	11.3
	SW	SW	NE	NE	NE	SW	SW	SW	SW	SW	NW	SW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value .

Table 38. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1985.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	SW 3.2	SW 8.7	NW14.5	N10.3	SW 9.2	NW19.0	NW10.1	SW 7.1	NW10.5	NE11.5	NW 8.9	NE15.9
2	SW11.8	M10.7	NE 8.4	NW15.5	NE12.5	NW11.8	NW12.1	SW12.8	S10.1	SW11.2	NE11.6	NW 8.7
3	SW14.1	M 9.9	E18.1	NW13.9	SE13.6	SW 5.5	SW 9.6	S11.2	NE 5.5	SW 9.6	NE 9.5	S 7.8
4	NW12.2	M	NE30.0	NE 7.5	SE16.5	SW10.8	N11.4	S12.4	SW12.0	N14.3	SE 7.2	S 6.4
5	E10.2	M	SW 9.6	NE 9.1	SW10.1	NW 8.7	N10.3	N 5.8	SE13.6	NW13.5	S25.0	N 5.4
6	E14.8	M	S18.8	NW14.1	SW 9.4	S17.1	S10.9	W11.0	NW13.8	N 7.3	NW 9.7	SW11.1
7	NE13.5	M	SW13.3	N17.8	S 9.1	NW14.8	SW10.6	NW11.3	NE13.2	NE15.6	NW14.0	NE 5.3
8	SW 6.7	M	NW12.8	NW12.1	SW17.1	SW17.8	NW11.3	S14.3	NE15.8	NE21.7	NW10.6	NE 4.5
9	W 2.4	M	SW12.4	SW17.9	NW11.0	NW21.1	NW14.6	SW17.5	NE14.1	NW 6.5	NE10.5	SW 6.9
10	NW 5.3	M	SW11.0	NW14.0	E15.0	N 8.8	NW12.0	N12.6	N 9.3	SW14.5	NW 7.3	NW 9.1
11	NW13.8	M	NW 9.3	SW10.9	NE13.0	NE13.2	NW11.7	S 7.5	NE 4.0	SW11.1	S10.6	SW12.5
12	SW10.6	M	SW15.2	NE17.7	NE10.8	N11.1	SW 8.3	SE17.8	SE10.2	SW 8.7	W 6.5	NW11.5
13	SW15.5	M	NW14.8	NE13.7	SW12.2	W 3.6	NW 9.5	SW24.0	S14.5	SW18.1	SW11.0	W 8.2
14	N12.2	M	N 7.6	SW14.1	S 8.7	S 7.0	NW10.9	SW17.9	SW12.6	SW15.2	NE 7.4	SW 5.0
15	S 3.8	M	S 8.3	NW15.0	NE22.1	SE 7.2	NW12.8	NW 8.4	SW18.9	NW11.9	S 9.7	NW 9.3
16	S 2.3	M	NW14.5	SE 8.7	NE17.3	S11.3	SW11.2	NE11.4	SW17.0	NW 8.8	S 5.5	NW12.0
17	N 6.6	M	SW 8.5	S13.3	NW16.5	NW10.4	SW 4.9	SW14.8	SW11.8	SE14.8	SW11.6	NW12.6
18	N 9.2	M	SW14.3	S 6.5	SW15.7	NE19.2	NE 6.9	NW16.2	NE 8.3	SW12.3	NE29.1	W 9.3
19	NW11.6	M 8.2	NW15.3	E12.6	NW17.5	NW 9.8	NW11.9	N11.3	NE20.6	S 9.2	NE29.3	NW 3.5
20	NW16.6	S14.3	S11.0	SE15.9	N11.8	SW11.8	NW10.3	E 5.2	NW11.8	SW17.4	N16.3	SW 6.4
21	NW19.6	N 7.9	SW14.7	SE10.7	SW 9.9	S11.0	NW15.3	S 8.0	S13.5	S16.8	SE 3.8	SW14.9
22	NW14.4	S 6.1	E13.9	M10.4	NE 9.5	NW21.5	S 8.1	SE 9.5	S12.1	S23.9	E13.3	NW12.2
23	NW 6.0	NE 8.6	E16.0	M22.3	SW 9.5	NW17.0	SW17.5	SE10.6	NW18.4	SW24.2	M 4.6	NE15.9
24	NW17.2	SW10.9	S11.7	M20.9	NE12.1	E 9.4	N12.5	NE 9.3	NW19.5	SW15.0	M 7.6	NW16.4
25	NW10.5	M10.6	S22.0	NE12.8	NE 8.0	SE20.1	NW 9.0	S 6.0	SW15.8	S12.2	NE 6.1	NW14.1
26	SW10.0	M 8.7	NE 9.7	NE11.3	N 9.4	NW 9.4	NW 8.6	SW13.9	SW12.8	NW17.8	W13.3	NW14.5
27	NW 9.2	M15.2	NW14.3	S11.3	SW 7.5	NE23.5	S12.3	NW 9.9	SW19.0	SE 6.8	SW 8.8	W16.5
28	SW 6.9	SW19.2	NE22.2	SW15.7	SW 6.8	S 8.7	NW12.7	NE 6.3	NE12.3	S20.2	W 4.4	NW15.4
29	SW10.8		NE14.6	SW18.5	S12.9	E 7.9	NW 7.9	NE 7.8	NE12.4	NW14.0	W 3.3	NW12.8
30	SW10.0		S 8.0	NE14.8	SE 7.4	S 8.5	W 7.3	SW10.6	NE13.6	SW14.5	NE 7.5	NW13.8
31	S 7.3		NE14.1		NW12.8		N 4.7	SW19.3		SW16.2		W11.1
Mean	10.3	10.7	13.8	13.6	12.1	12.6	10.6	11.7	13.2	14.0	10.8	10.6
	NW	M	SW	NE	NE	NW	NW	SW	SW	SW	NE	NW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value .

Table 39. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1986.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	W 5.8	SW 9.5	M12.1	NW15.5	N17.1	NE10.2	N 7.3	NW10.5	NE19.9	N 2.2	W15 1	S 9.8
2	NE 7.3	S 1.9	N 9.9	E10.8	NW 9.9	S18.3	NE 9.3	NW11.8	SE16.0	NE11.2	SW 9.3	S12.0
3	E 4.8	SW14.2	NW 9.8	E12.0	SW11.1	SW14.8	S15.6	SW 8.7	SW11.1	NE10.8	NW12.0	NW14.8
4	NW 9.4	N 7.3	NE13.0	SE15.0	SW13.6	N10.9	SW 6.1	SW 5.7	M14.9	S14.0	S16.4	NW 9.0
5	NW14.6	SE 5.3	SW11.3	E 7.0	E22.0	S 5.2	SW17.1	NE 5.9	M16.1	NW13.3	SW12.5	S14.8
6	N 8.2	S 4.6	NW21.3	SW 8.0	SW13.9	S14.3	SW21.5	SE10.2	M10.6	S10.7	NW 9.6	SW 8.5
7	W10.3	N 9.0	SW 9.8	NW18.7	NE17.1	NW17.5	SW13.9	S11.3	SW13.8	NW11.8	NE24.8	NE 8.7
8	SW24.5	N 8.0	E12.2	N17.9	E18.4	NW 7.8	N 5.0	NW 9.2	NW 8.8	NW11.7	NE23.0	S13.9
9	NW16.9	N10.3	E 8.0	N 7.7	SE20.3	S 7.9	N 6.5	SW12.1	NE 4.5	S 9.5	NW13.9	SW12.5
10	SW11.0	N 4.0	N 6.8	E 6.0	S15.2	NE14.5	NE 7.0	NW10.5	NE 9.6	S21.5	SW11.0	S10.3
11	SW20.5	NW 4.8	NE 5.5	E11.2	S 9.8	NE13.2	E14.3	NW 8.5	N 6.1	N14.4	SW 5.8	NW 8.6
12	N19.4	SW10.7	NE 5.3	NE10.4	SW15.8	SW18.4	E18.8	SW10.9	NW 14.1	NW10.9	W11.9	NW 5.5
13	S10.4	SW 8.1	NE11.4	E 8.4	SW 8.1	SW11.8	NE 8.2	S10.9	W 7.4	SW 3.9	SW15.1	S16.8
14	NE13.1	SW11.4	NE10.1	E19.0	S12.5	W 8.8	S 9.2	SW 5.6	NW 3.7	N13.5	NW13.1	SW 5.9
15	SE 7.4	W 8.5	N 5.4	NE13.0	N 8.3	NW 6.3	S 5.2	SW14.0	NE 8.3	SW14.3	SW 7.1	S 3.4
16	SE14.8	E 9.0	SW10.1	SE10.4	SW15.3	NW13.1	S 6.7	SW11.4	SE11.8	NE 7.0	NW15.0	S 4.2
17	NW10.2	SW12.2	NW 9.5	S12.0	M11.3	SW 5.3	NE10.2	NW 5.8	NW 9.8	S12.1	NW 6.4	NW 4.6
18	NE 6.1	N12.5	NE14.1	SE14.6	M	SE 5.8	SW 8.5	S 6.1	N 4.9	S13.7	SW 6.3	SW 9.8
19	S 8.4	N 7.9	NE18.0	NW13.9	M 4.5	NE13.8	NW10.6	S15.9	NE 7.0	SW 9.3	SE11.3	NW 5.2
20	S 7.8	NW 7.7	SW 9.6	NE19.4	SE 7.7	SE10.5	SW 8.0	M17.0	NE 7.1	SW 6.8	N 7.5	SW 5.6
21	N13.2	SW18.0	SW16.3	NE10.2	NE10.5	SW 6.3	SW12.3	M	E 8.0	SW10.0	SE 9.0	SW14.2
22	N 5.1	N 8.0	SW23.8	SW18.1	NE13.3	SW12.0	SW 6.4	M 5.8	SW 12	N14.3	N 9.6	SW11.9
23	E 8.8	SW 5.5	NW16.3	S15.8	E11.1	N13.5	S14.3	NW 6.7	SW 8.3	NE 4.8	NW 9.9	SE 5.0
24	SE14.6	S 3.7	SW13.3	NW14.8	S 7.1	SW 8.6	SW11.8	S15.6	NE 7.9	S 3.0	S15.0	SW12.6
25	NW22.0	S12.1	SW14.1	NE26.8	NE10.0	S15.0	NW 7.8	NW14.5	E20.7	SW 4.2	S12.2	NW 5.8
26	NW15.0	E11.5	N12.9	NE11.7	N 7.0	NW 9.3	S10.7	N15.3	E19.2	SW10.9	S12.8	S11.4
27	S 6.9	NE 6.6	SW18.6	NE18.3	N 5.6	NW12.8	NE 5.6	NW 9.3	E 9.1	S10.3	SW17.5	SW16.0
28	N 7.0		NW13.9	NE13.4	SW 6.4	NW13.1	SW 8.3	SW12.7	S 5.5	NW14.5	NW 6.1	SW 3.5
29	NW12.0		SE14.8	NW 9.4	SW 8.8	NE 8.6	S 8.4	SW13.4	SW 5.6	NW 8.9	N 5.1	N 6.8
30	NW 8.2		SW11.5	NE18.6	SW16.4	S 6.6	SW13.1	S11.1	SW 7.2	SE14.6	E 5.1	S14.9
31	S 3.0		S14.4		E12.7		SW12.6	S 8.9		NW21.2		NW 9.7
Mean	11.2	8.6	12.4	13.6	12.0	11.1	10.3	10.5	10.3	10.9	11.6	9.5
	NW	N	SW	NE	SW	NW	SW	SW	NE	S	NW	SW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value .

Table 40. Daily abstract of wind in kilometres per hour from the Rawson Lake meteorological station in the Experimental Lakes Area for the year 1987.

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	S 2.7	SW 5.1	NW 8.7	N14.7	NE10.0	SW12.7	SE10.0	NW 6.3	NE12.9	N25.0	SE10.4	N 3.3
2	S10.2	NW 9.1	NW 9.8	NW 5.6	NE11.2	SW20.7	NW10.5	SW 8.4	S 8.2	N12.8	S 8.0	N 1.6
3	SW 5.7	W 4.7	SE 8.2	SW10.8	SE 9.2	NW15.8	NW 6.9	SW14.7	S21.5	SW18.2	SW 7.0	N 7.8
4	SE12.5	SW10.8	S 7.8	SW 8.2	S10.5	NW11.5	S 9.7	NE 6.7	SW14.2	SW17.6	NW15.2	E 1.0
5	S 5.9	SW 9.8	S11.0	S 7.0	S16.8	SE 5.3	S 9.8	SE13.8	N 4.5	M21.1	NW11.2	E 6.2
6	NW13.9	SW 9.9	S13.2	NW 4.7	NW12.0	SE 7.6	S 5.9	SW14.4	S 6.4	M18.8	SW 5.3	S 9.4
7	SW 9.3	N15.8	NW 9.5	SW 5.8	N 9.4	SE13.5	SW10.0	SW 6.3	SW 8.3	M 7.0	S13.3	SE15.5
8	SW 7.0	SW10.0	N21.2	SW 9.9	SW18.1	NW13.0	NW 9.2	SW12.8	SW 9.8	M14.5	NW12.8	S10.3
9	N11.6	SW10.1	N 3.7	S11.8	NW12.9	NW 5.8	SE 7.9	N11.1	SW 6.1	NW17.4	NW 8.8	SW 7.3
10	SW10.3	E 2.5	S 2.6	S 8.2	SE11.2	SE14.7	SE11.8	SE15.7	N 5.3	SW12.3	S13.4	SE12.8
11	SW10.5	S11.7	NW 5.0	NE15.5	NW13.6	SW11.5	N11.4	S15.5	NW 5.6	SW 8.9	SW 9.6	NW10.5
12	SW 4.3	N10.5	N 2.4	SW 7.7	S19.8	NW11.8	NW17.3	W 8.1	NW 3.2	S 7.3	SW 8.0	NW14.2
13	SW13.1	NE15.0	NE 4.3	NW 6.0	SW18.8	SW 6.4	N10.6	SW 4.8	SW 6.6	SW16.8	NW 7.9	NW 7.8
14	NW13.9	NE10.7	NE11.0	SE 7.1	NW10.2	NW13.8	S 7.4	SE11.6	S12.0	NW 8.3	SE 9.7	NW 2.0
15	SW 6.8	SE 8.2	SE 8.9	S11.3	S13.9	SW12.0	SE 9.4	SW 8.6	N 6.8	NE10.0	SE15.8	N11.4
16	S 8.4	SE 7.3	SE11.3	SW12.5	N 6.8	SE 8.4	S17.5	SW 9.1	NE10.9	NE13.0	N16.1	M10.3
17	SW 9.3	S 1.2	SE11.2	SW10.5	NE15.6	SW16.5	M11.8	NW 9.3	NE 6.4	SE 8.0	N16.2	M 8.6
18	M 9.6	S 4.3	SE15.2	SE11.8	NE17.2	NW 9.4	NE24.7	NW 8.5	NE11.0	SW14.8	SW18.0	SW 9.7
19	M10.7	S 3.7	SE13.2	SE19.0	SE 6.8	NE 5.0	SW13.6	SW 9.1	NE13.8	SW 5.7	NW17.2	SW12.2
20	SW 4.2	SW10.3	SE10.0	NW17.8	NE 4.5	S 6.9	SW10.0	SW 9.0	N13.1	N10.1	NW 8.9	SW 6.6
21	NW 8.5	NE13.5	NE12.6	S 9.0	NE25.9	S 6.8	NW 7.0	NW17.8	N 6.7	SE 6.1	S16.8	M 3.8
22	NW 8.7	N 8.0	S13.2	SW17.0	NE14.5	SW 9.0	NE 9.0	NW13.2	SW11.5	NE 9.0	N 6.7	M 9.2
23	NW 3.7	NE 2.7	S 5.0	N11.4	SW 7.3	SW12.7	NW 9.6	NW 9.3	NW13.2	SE 9.4	N13.0	SW 5.8
24	NW 1.8	SE 5.5	N13.1	S 8.1	S 5.9	SW11.2	NW 9.0	SW11.3	N 7.2	S10.0	SE 5.5	N 3.9
25	S 1.0	SE11.4	NE17.3	SE11.4	SE 8.4	SW10.5	SW10.8	NE 5.2	SW 6.6	S21.3	SE 5.8	SW 5.3
26	S 7.8	S15.5	N 4.3	NW12.8	S 6.6	NW13.5	N 3.9	SW 7.7	E 7.1	NW13.2	S11.5	SW13.0
27	NW 9.0	NE13.8	NW 9.1	NW16.2	SE 7.5	NW10.6	E 3.8	NW 3.3	NE 8.2	NW 9.4	S 6.0	NE 5.7
28	SE 6.2	NE15.5	NW10.6	SW18.7	S14.7	NW 9.4	S 6.2	SW 9.0	N13.0	SE 3.2	S 2.7	SW 8.0
29	SE 9.5		NW 2.5	N16.7	SW10.7	N 9.8	N 9.4	S14.8	NW14.0	S13.0	N11.0	SE11.7
30	NW 9.0		SW 3.2	S 5.0	SW 5.7	SW 5.2	E 7.4	NW18.7	S13.3	NW 9.8	N12.5	SW13.5
31	M 8.5		S 8.3		S 8.8		SE13.1	NW 9.8		S 9.0		NW12.0
Mean	8.2	9.2	9.3	11.1	11.8	10.7	10.1	10.2	9.6	12.3	10.8	8.4
	SW	NE	SE	SW	S	NW	S	SW	SW	SW	NW	SW

Notes:
1. Values shown are mean hourly velocities in kilometres per hour for each day and month.
2. Daily directions shown are based on prevailing hourly directions determined from the anemograph charts for each day.
3. Only daily values have been reported here but hourly data is available on request.
4. M - missing value .

Table 41. Summary of mean monthly wind speeds in kilometres per hour from the meteorological station at ELA for the 19 year period from 1969 to 1987.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1969							7.6 *	8.7	9.0 *	9.2	11.4	9.5	9.2
1970	8.9	12.2	7.0	11.0	10.0	8.1	8.2	6.8	7.7	10.5	9.0	8.5	9.0
1971	9.2 *	9.3	9.0	12.1	11.3	8.7	10.3	8.7	10.3	8.9	8.4	8.4	9.6
1972	8.7 *	8.4	9.0	9.5 *	9.0	9.7	8.1	8.2	10.5	10.5	8.1	8.4	9.0
1973	9.0	8.7	9.3	10.5	10.9	10.0 *	9.5 *	7.6	10.0	10.1	9.7	8.7	9.5
1974	7.7	8.1	9.8	11.1	9.7 *	10.3	10.3	10.3	10.1	11.3 *	9.8 *	9.2	9.8
1975	8.9	8.2 *	11.8	10.8	10.6	10.0	10.5	10.1	10.1	10.8	10.6	8.4	10.1
1976	9.5	10.6	10.1	8.9 *	10.3	10.0	9.3	10.1	10.5	9.8	10.3	8.9	9.9
1977	8.2 *	10.0	11.9	9.8	10.0 *	9.0	10.3	9.2	9.5	10.8	11.3	9.0	9.9
1978	9.0	8.2	9.0 *	10.0	9.8	10.1	9.8	10.3	11.6	10.3	10.0	7.9	9.7
1979	7.2	10.1	10.5	9.5	10.3	10.3 *	8.3 *	8.5 *	10.3	9.8	8.7	8.9	9.4
1980	7.9	8.1	8.2	10.6	9.2 *	11.6 *	10.9	10.1	11.9	11.3	9.3	8.9	9.8
1981	8.1	8.9	9.7	11.1	9.8	10.0	10.0	9.7	11.6	12.4	10.5	7.6	10.0
1982	9.9	9.7	11.5	11.5	10.3 *	10.7	10.0	10.1 *	12.3	12.3	10.2	10.5	10.8
1983	10.1	9.3	11.4	11.0	12.1	11.1	10.8	9.6	12.7	11.3	13.0	9.5	11.0
1984	9.8	9.1	9.4	12.3	11.6	12.1	10.6 *	11.4	11.7	13.5	11.3	11.3	11.2
1985	10.3	10.9 *	13.8	13.6	12.1	12.6 *	10.6	11.7	13.2 *	14.0 *	10.8	10.6	12.0
1986	11.2	8.6 *	12.4 *	13.6	12.2 *	11.1	10.3	10.3 *	10.3 *	10.9	11.6	9.5	11.0
1987	8.1 *	9.2	9.3	11.1	11.8	10.7	10.1 *	10.4 *	9.6 *	12.3 *	10.8	8.4 *	10.2
Mean	9.0	9.3	10.2	11.0	10.6	10.3	9.8	9.6	10.7	11.1	10.3	9.1	10.0
SD	1.0	1.1	1.6	1.3	1.0	1.1	1.0	1.2	1.3	1.3	1.2	0.9	0.8

Notes: All values are mean wind speeds in kilometres per hour.
Hourly and daily wind speeds and prevailing directions are available on request.
* indicates a mean monthly wind that is based on less than a full month of record.

Fig. 8. Mean annual wind speed for the Experimental Lakes Area for the period 1969 to 1987.

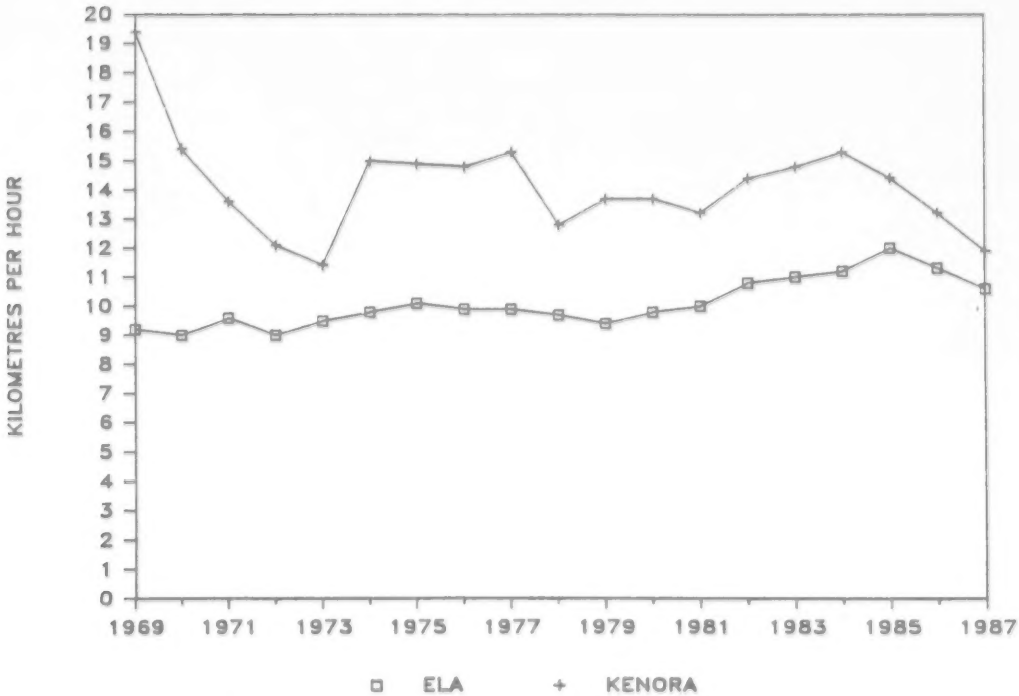


Fig. 9. Mean annual wind speed for Kenora and the Experimental Lakes Area.

APPENDIX 5

SUMMARY OF EVAPORATION PAN DATA

The problem of measuring and calculating evaporation and transpiration from lakes, forests and entire drainage basins is a difficult one. Methods rely on empirical evaporation measurement and calculation methods. Three methods of determining evaporation are being used in hydrologic studies work at the Experimental Lakes Area (ELA):

1) solving for lake evaporation as the residual term in Rawson Lake water budgets
2) empirical mass transfer techniques
3) the evaporation pan.

Of these three methods, the evaporation pan is probably the most commonly used in the world (Bruce and Clark 1966).

Evaporation pans can be installed in three ways: floating on the lake, sunk in the ground, and installed on a low stand above ground. The first method more closely simulates surface temperature, wind and radiation effects, but is not practical with respect to servicing. The second is impractical because of potential problems of soil temperature, undetected leaks, wind exposure, and overgrown vegetation. Most pans are installed the third way, on a low stand above ground in an exposed clearing.

The ELA evaporation pan

The evaporation pan at ELA is located at the meteorological station (Station 1). It is a U.S. Weather Bureau Class A pan which was adopted as an interim international standard for the International Geophysical Year (1957-1958), is recommended by the World Meteorological Organization, and is the standard used in Canadian Atmospheric Environment Services sites.

The Class A pan is 122 cm in diameter, 25 cm in depth and made of non-corrosive metal. It is installed in an open site on a low stand that permits free air circulation under and around the pan. Each morning, the water level in the pan is adjusted to a standard height determined by a fixed point gauge. The depth of water added or removed is added to, or subtracted from, the depth of precipitation that may have occurred, and a daily net water loss is calculated. A totalizing anemometer, installed near the pan at a height of 1 m, records the wind run passing directly over the pan each day. Mean water temperature and mean air temperature are calculated from maximum and minimum thermometers in the pan and in the nearby Stevenson Screen instrument shelter. This wind and temperature data can be used to correct the pan evaporation for advected energy as suggested by Kohler et al. (1955).

Tables 42 to 47 provide a summary of evaporation pan data for the years 1982 to 1987. Similar records for the 1969 to 1978 and 1979 to 1981 periods were reported in Beaty (1981 and 1984). Because the ELA pan was serviced at 08:00 CST daily, the dates in the tables are for an "evaporation day" beginning after the morning observation and ending at the time of the morning observation of the next day. For example, readings taken on July 15 are recorded as the evaporation day of July 14. The net water losses reported have not been adjusted by a pan coefficient.

Pan coefficients

In order to convert evaporation pan data to lake evaporation, a conversion factor known as a pan coefficient is required. The pan coefficient is equal to the ratio of lake evaporation to pan evaporation. Several different investigators have shown that the annual pan coefficient is less than unity, ranging from 0.6 to 0.8 (Hounam 1973). Our investigations at ELA using Rawson Lake water budgets from 1972 to 1976 yield an average annual pan coefficient of 0.64 for data uncorrected for advected energy, and 0.70 for corrected data (Newbury and Beaty 1977).

The pan method is not recommended for weekly or monthly evaporation estimates. The reason for this is that the lake and the pan do not behave in exactly the same way. The pan is small in relation to the lake and its water temperature fluctuates closely with the air temperature. The heat storage capacity of lakes is important, and evaporation is not closely related to daily solar energy received. In the fall season, large amounts of lake evaporation occur when surface temperatures are much higher than the air temperatures. The opposite takes place during the late spring, when the lake evaporation is low due to low surface temperatures. Monthly pan coefficients for Rawson Lake based on water budget evaporation varied from 0.30 to 1.10 for corrected data (Newbury and Beaty 1977).

Historical summary

Table 48 provides a summary of total net evaporation pan water losses for the period of record 1969 to 1987. Correction for advected energy and pan coefficients have not been applied. The periods of observation or measurements in each case are always less than the ice-free period or open water season for Rawson Lake. This is because the pan record must be discontinued once freezing temperatures are common. Evaporation from the pan and lake are low during the late October period of missing record.

Table 42. Rawson Lake Watershed summary of evaporation pan data for 1982.

Date	MAY Net Water Loss (mm)	MAY Wind Run (km)	MAY Average Water Temp. (oc)	MAY Average Air Temp. (oc)	JUNE Net Water Loss (mm)	JUNE Wind Run (km)	JUNE Average Water Temp. (oc)	JUNE Average Air Temp. (oc)	JULY Net Water Loss (mm)	JULY Wind Run (km)	JULY Average Water Temp. (oc)	JULY Average Air Temp. (oc)
1	5.4	116	16.0	14.2	2.4	179	9.8	5.5	8.4	71	22.5	20.0
2	4.8	184	11.5	15.2	3.8	63	12.2	9.5	6.6	140	17.8	18.8
3	6.4	266	17.5	19.2	7.0	206	16.5	15.5	9.4	100	15.0	15.5
4	3.0	126	13.5	11.8	7.8	160	19.0	17.2	4.0	207	21.2	20.8
5	5.2	117	13.9	10.0	9.2	218	19.2	19.0	3.1	77	21.0	20.5
6	5.4 *	217	11.5	8.2	6.6	216	15.2	16.2	8.2	171	22.2	19.0
7	1.1 *	195	4.0	2.0	1.6	194	10.2	9.8	5.4	176	16.8	15.2
8	4.0	89	9.8	5.5	1.4	65	10.0	9.4	7.4	137	20.0	19.2
9	2.2	212	12.0	11.5	1.6	206	9.8	10.0	3.6	61	17.8	16.2
10	2.4	173	11.0	11.2	6.4	191	14.8	13.5	5.8	110	20.8	20.8
11	2.4	102	11.2	9.5	6.2	148	15.0	12.2	6.2	78	20.8	23.2
12	5.8	181	14.5	12.2	4.8	138	14.2	13.8	8.9	123	23.0	22.0
13	0.4	79	10.8	9.8	3.6	54	18.8	15.5	3.0	64	M	16.5
14	1.4	201	12.0	11.5	5.8	163	16.5	13.8	4.6	80	23.5	21.0
15	1.2	287	10.8	10.0	5.6	121	16.8	12.0	1.2	81	20.5	19.5
16	0.4	177	9.8	9.5	2.0	159	11.0	11.8	5.0	135	24.5	21.8
17	0.5	82	12.5	12.5	5.4	98	15.0	11.8	6.4	266	18.8	15.2
18	1.2	139	12.2	10.8	4.4	75	16.0	12.5	4.2		18.2	17.0
19	2.2	227	8.2	6.0	4.0	106	15.0	12.8	6.6	(249)*	22.0	19.8
20	6.4	128	13.0	10.2	4.4	143	15.5	13.5	6.4	153	24.5	21.5
21	5.8	91	15.8	13.5	4.2		16.5	13.5	7.8	108	22.0	18.2
22	6.6	72	17.2	14.8	4.8	(138)*	19.2	16.5	6.0	82	22.0	20.5
23	6.8	73	19.5	16.8	5.4	174	19.8	18.5	4.8	182	21.5	22.2
24	7.2	88	20.8	18.2	5.0	164	15.8	13.0	6.2	111	22.2	21.8
25	2.8	80	20.0	17.2	5.8	73	18.2	14.5	7.2	134	22.0	20.2
26	7.4	72	23.5	20.0	7.0	155	20.5	18.8	6.4	75	22.8	20.2
27	7.4	65	23.5	21.2	9.6	148	19.5	18.5	5.6	52	22.5	21.0
28	9.0	110	23.5	22.0	6.4	154	15.8	14.5	7.2	89	M	20.8
29	5.4	101	18.2	16.5	7.2	129	17.5	15.5	3.2	125	19.8	18.5
30	3.9	89	15.5	14.0	6.6	80	19.2	17.8	5.0	89	22.8	21.8
31	1.4	140	11.0	9.0					6.8	190	20.2	18.0
Total	125.5	4279	443.1	394.0	156.0	4118	471.5	416.2	171.6	3736	(609.7)	605.7
Mean	4.0	138	14.3	12.7	5.2	142	15.7	13.9	5.5	125	(21.0)	19.5

Date	AUGUST Net Water Loss (mm)	AUGUST Wind Run (km)	AUGUST Average Water Temp. (oc)	AUGUST Average Air Temp. (oc)	SEPTEMBER Net Water Loss (mm)	SEPTEMBER Wind Run (km)	SEPTEMBER Average Water Temp. (oc)	SEPTEMBER Average Air Temp. (oc)	OCTOBER Net Water Loss (mm)	OCTOBER Wind Run (km)	OCTOBER Average Water Temp. (oc)	OCTOBER Average Air Temp. (oc)
1	3.0	159	14.8	13.5	2.0	167	13.5	12.5	0.5	139	7.5	6.9
2	3.0	148	17.2	16.2	2.2	166	12.8	13.8	1.3	136	7.5	7.2
3	2.4	47	21.0	20.2	3.6	135	15.8	15.5	1.2	112	9.2	9.5
4	6.4	132	24.2	22.2	7.2	238	16.0	16.2	2.4	195	9.2	8.8
5	5.6	49	24.0	22	1.4	79	7.2	9.8	1.0	213	5.8	4.0
6	4.0	50	24.0	21.8	4.4	182	13.8	12.8	4.7	306	4.2	5.0
7	7.2	217	23.0	21	1.8	217	15.0	16.2	0.6	73	7.2	7.2
8	4.8	342	13.8	12.8	3.2	156	21.8	21.5	1.2	166	9.0	8.5
9	2.4	141	13.2	12.2	4.8	210	23.0	23.5	1.3	262	8.2	8.2
10	5.2	49	18.0	14.2	2.4	140	21.8	22.0	0.6	178	7.8	7.5
11	5.4	82	19.5	16.2	2.2	72	17.0	16.2	0.2	210	6.2	6.5
12	7.0	204	20.2	19.2	1.4	136	11.5	11.0	0.2	100	6.0	5.8
13	4.8	78	22.0	20	2.2	187	10.0	9.5	0.2	140	6.5	6.8
14	2.2	129	21.2	21.8	1.2	105	7.2	6.0	Pan shutdown for season			
15	7.2	158	22.0	21.5	1.2	56	10.2	8.0				
16	6.2	81	22.2	19.2	2.2	120	12.0	11.2				
17	6.2	59	22.5	20.8	2.4	122	10.0	8.0				
18	1.8	98	20.2	20	1.8	174	10.2	12.2				
19	7.6	170	20.2	19.5	1.2	144	7.2	7.0				
20	4.2	78	19.5	18.5	2.4	48	10.0	3.0				
21	0.7	66	15.2	15.2	3.8	94	12.8	12.2				
22	3.8	108	17.5	16.8	4.4	162	14.5	15.2				
23	4.7	79	18.2	16	1.0	238	9.0	8.8				
24	5.0	130	16.2	14	2.4	77	8.5	10.0				
25	3.0	138	11.0	9.2	4.1	210	6.2	9.8				
26	2.8	171	8.0	7.8	1.2	180	14.0	13.0				
27	4.8	163	10.0	8.8	7.6	281	6.8	6.2				
28	3.6	142	12.8	12.5	1.2	243	8.8	11.0				
29	1.6	144	11.8	12	2.4	199	10.5	9.2				
30	2.2	80	13.0	13.2	2.2	164	5.2	4.5				
31	1.3	91	12.2	12.8								
Total	130.1	3783	548.6	511.1	81.5	4702	362.3	355.8	(15.4)	(2219)	(94.3)	(91.8)
Mean	4.2	122.0	17.7	16.5	2.7	156.7	12.1	11.9	(1.2)	(171)	(7.2)	(7.1)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 43. Rawson Lake Watershed summary of evaporation pan data for 1983

Date	MAY Net Water Loss (mm)	MAY Wind Run (km)	MAY Average Water Temp. (oc)	MAY Average Air Temp. (oc)	JUNE Net Water Loss (mm)	JUNE Wind Run (km)	JUNE Average Water Temp. (oc)	JUNE Average Air Temp. (oc)	JULY Net Water Loss (mm)	JULY Wind Run (km)	JULY Average Water Temp. (oc)	JULY Average Air Temp. (oc)
1	4.8	111	12.0	7.8	4.8	70	17.0	14.8	1.6	115	16.5	16.0
2	3.7	75	13.0	9.8	4.4	51	17.0	15.2	1.8	147	17.2	17.2
3	2.8	237	9.5	6.0	0.8	56	14.0	12.0	1.8	107	18.0	15.8
4	3.4	73	8.5	2.5	0.5	126	8.5	8.0	3.8	184	11.8	10.0
5	4.6	159	10.2	6.8	7.5	192	12.2	10.2	5.3	99	16.5	13.8
6	5.2	217	10.2	7.0	7.2	229	12.8	10.8	5.0	164	21.8	21.8
7	5.1	125	10.0	5.0	7.2	141	15.0	12.5	5.6	101	24.5	23.2
8	5.4	165	11.5	9.0	0.7	132	10.0	8.5	8.1	155	25.2	22.8
9	8.4	277	12.0	12.8	2.7	101	17.2	14.8	7.2	186	24.2	22.5
10	1.6	104	10.0	12.2	6.1	215	15.8	19.0	10.2	218	25.5	24.8
11	2.5	265	9.8	7.2	9.0	188	24.8	24.2	3.4	220	17.2	18.5
12	3.4	234	10.0	9.5	6.3	257	23.2	23.0	9.2	162	24.0	24.2
13	2.4 *	296	7.0	2.2	4.6	188	19.5	18.0	7.8	164	27.2	26.5
14	4.8 *	198	6.0	-1.2	0.8	50	15.0	13.0	8.0	53	29.5	27.8
15	2.9 *	100	7.0	0.2	4.4	219	14.0	11.0	11.2	152	27.5	26.8
16	3.0	94	9.8	4.8	2.2	110	11.8	10.2	5.2	105	22.8	21.0
17	3.0	117	11.2	9.0	6.5	41	20.2	17.0	4.8	77	22.2	21.2
18	5.6	127	16.2	14.0	8.2	158	20.8	19.8	4.8	53	24.0	21.8
19	3.8	213	11.4	9.0	8.0	207	20.2	20.8	3.2	44	24.2	22.2
20	1.8	122	12.0	8.2	4.8	182	21.0	21.0	7.2	94	26.5	24.8
21	1.9	185	10.8	11.2	6.1	119	22.8	21.5	10.4	163	26.0	24.2
22	5.0	[illegible]	11.5	9.5	4.3	174	19.2	17.5	10.2	206	23.5	23.5
23	5.5	[illegible]	13.8	10.2	8.2	79	22.8	20.8	5.6	141	21.0	19.8
24	4.0	[illegible]	10.5	5.8	7.1	122	24.8	23.5	6.6	54	24.0	21.8
25	4.8	[illegible]	13.0	8.8	7.2	168	24.5	22.5	7.2	67	25.0	22.2
26	7.1	129	14.5	13.2	8.6	230	16.8	15.5	6.4	183	25.2	24.5
27	5.2	78	15.2	14.2	5.6	86	17.2	15.8	2.6	79	25.2	23.0
28	3.0	259	13.2	11.5	8.2	63	21.8	19.0	6.6	110	23.8	23.5
29	0.7	260	12.5	11.2	5.0	162	20.2	19.2	5.7	69	24.0	23.0
30	5.1	273	11.8	11.5	1.1	116	17.8	16.8	4.2	97	21.5	19.8
31	7.2	97	16.0	11.5					3.5	123	20.8	20.0
Total	127.7	5203	350.1	260.4	163.1	4222	538.2	495.9	185.9	3892	707.3	669.0
Mean	4.1	167.8	11.3	8.4	5.4	140.7	17.9	16.5	6.0	125.5	22.8	21.6

Date	AUGUST				SEPTEMBER				OCTOBER			
1	7.2	74	24.8	23.0	6.4	116	24.2	24.2	1.2	59	9.5	7.8
2	6.2	137	23.8	22.8	8.1	211	23.5	26.0	0.5	111	8.8	7.8
3	2.4	39	25.5	24.0	6.7	193	20.0	21.0	0.4	143	7.0	6.8
4	8.0	164	27.8	26.2	4.8	102	20.0	20.2	0.8	121	7.0	7.0
5	9.6	128	24.5	24.0	7.2	163	19.5	18.0	1.3	182	6.8	6.0
6	7.2	129	24.2	25.8	3.4	131	16.5	14.8	2.6	97	6.8	6.0
7	11.0	208	23.8	24.8	2.4	119	17.0	16.8	1.7	74	7.2	4.2
8	6.9	126	21.5	19.8	3.0	168	16.2	16.8	1.0	91	7.5	7.5
9	4.3	92	21.0	20.5	2.8	120	17.5	17.0	4.8	306	9.0	8.8
10	5.6	132	20.0	18.8	6.0	304	12.8	11.8	-0.7	198	7.5	7.5
11	3.2	56	22.5	21.0	1.6	89	12.2	11.0	0.7	122	4.8	2.5
12	8.6	215	23.2	23.2	2.8	94	12.8	10.8	0.0	243	3.0	1.5
13	7.2	122	22.5	22.0	2.6	97	16.5	10.2	Pan shutdown for season.			
14	8.5	76	23.5	23.0	3.4	66	12.8	12.2				
15	8.3	185	23.0	23.0	0.0	167	10.2	10.2				
16	0.9	45	22.8	18.5	2.0	149	11.8	11.5				
17	7.8	118	23.2	24.0	2.6	261	10.5	10.8				
18	4.4	194	24.5	25.0	3.6	292	6.2	7.8				
19	7.5	214	18.2	17.5	0.6	162	6.8	6.5				
20	1.8	73	15.8	15.0	1.4	214	6.8	4.8				
21	4.8	95	17.2	16.8	1.6	221	5.8	3.5				
22	5.6	119	19.2	18.8	1.5	110	6.2	3.8				
23	5.7	57	20.5	20.5	4.4	190	8.8	9.0				
24	3.6	114	22.8	20.8	2.4	113	11.8	13.0				
25	6.8	125	25.5	25.0	3.4	41	9.5	13.5				
26	4.3	95	24.2	23.2	4.2	79	15.8	17.8				
27	4.0	37	23.0	22.8	3.8	211	16.0	18.8				
28	5.0	84	23.2	21.5	3.0	217	14.2	13.8				
29	1.1	45	20.2	20.8	4.0	188	10.5	8.8				
30	5.8	38	23.8	22.2	2.4	135	7.2	8.2				
31	6.4	165	24.2	24.5								
Total	179.7	3501	699.9	678.8	104.1	4723	399.6	392.6	(14.3)	(1737)	(84.9)	(73.4)
Mean	5.8	112.9	22.6	21.9	3.5	157.4	13.3	13.1	(1.2)	(145)	(7.1)	(6.1)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 44. Rawson Lake Watershed summary of evaporation pan data for 1984

Date	MAY Net Water Loss (mm)	MAY Wind Run (km)	MAY Average Water Temp. (°c)	MAY Average Air Temp. (°c)	JUNE Net Water Loss (mm)	JUNE Wind Run (km)	JUNE Average Water Temp. (°c)	JUNE Average Air Temp. (°c)	JULY Net Water Loss (mm)	JULY Wind Run (km)	JULY Average Water Temp. (°c)	JULY Average Air Temp. (°c)
1	1.0 *	139.0	3.5	0.8	8.2	160	18.5	17.8	4.7	91	20.2	19.0
2	3.0	67.0	9.5	4.7	8.8	176	16.2	15.2	5.9	129	22.0	21.5
3	2.0		22.5	7.3	9.2	142	17.2	17.5	9.0	189	20.5	19.5
4	4.8		9.0	8.3	5.6	174	13.8	15.2	5.0	135	18.8	15.2
5	6.0		11.5	9.0	2.4	160	16.5	15.6	4.7	196	13.5	12.0
6	3.3	(471)*	10.5	8.7	4.3	197	14.5	16.3	4.8	107	17.0	15.2
7	1.4	317	4.0	1.7	7.0	191	20.8	19.2	6.2	129	21.3	19.0
9	0.5	298	3.3	1.7	4.6	208	13.5	12.3	6.6	145	22.8	20.8
9	2.3	65	10.7	7.3	2.7	226	9.0	7.8	8.2	105	23.0	21.5
10	3.0	146	11.0	8.7	5.3	131	14.0	12.0	6.2	77	23.5	21.8
11	9.4		6.7	4.3	5.8	132	17.5	15.5	7.2	114	22.8	21.5
12	2.4		12.0	7.7	2.6	162	14.2	13.2	4.8	99	22.0	20.2
13	8.0	(392)*	12.7	10.0	2.8	81	15.8	12.8	7.0	105	25.0	22.2
14	6.2	125	13.5	10.5	6.0	82	19.5	15.2	9.0	232	22.0	19.8
15	7.9	177	13.7	13.0	1.4	140	16.5	17.0	4.0	160	17.5	17.0
16	3.2	285	14.0	13.3	5.8	149	22.5	21.5	5.3	187	17.2	17.2
17	9.0	264	15.0	17.7	2.4	117	19.0	19.0	5.8	106	19.0	17.2
18	5.0	200	14.3	13.5	6.6	150	18.0	15.8	8.0	199	21.8	20.0
19	1.7	108	10.0	8.7	4.9	28	20.0	17.8	7.6		21.5	19.8
20	1.6	189	11.3	11.0	9.0	112	21.8	18.8	7.2		23.8	21.0
21	3.2	115	14.5	13.3	3.3	143	20.0	20.8	4.4		22.2	22.0
22	6.2	188	11.7	10.0	4.0	129	21.0	19.2	6.0	(491)*	22.5	22.0
23	5.8	214	12.7	11.3	4.4	219	15.5	15.5	8.8	129	21.2	19.2
24	4.0	246	10.7	8.0	5.9	138	16.5	14.8	6.6	64	22.5	20.0
25	4.2	141	8.7	6.0	5.8	165	19.0	21.5	4.8	78	22.0	20.0
26	4.0	132	8.7	7.3	3.0	225	18.0	19.9	5.8	69	20.2	18.0
27	6.0	128	13.0	10.5				19.8	5.4	47	22.0	19.2
28	5.0	47	14.5	15.0	(13.0)*(	185)*(	18.5)*	16.8	8.2	95	23.8	22.8
29	7.2	91	16.7	15.7	7.0	65	23.0	19.5	5.2	135	24.0	22.5
30	7.2	205	17.3	19.3	9.2	149	22.8	22.2	1.0	94	21.0	21.5
31	7.4	167	20.5	20.3					7.0	91	23.2	21.8
Total	143.1	4917	367.7	304.6	160.7	4336	513.1	506.8	190.4	3788	660.3	610.0
Mean	4.6	189	11.9	9.8	5.5	150	17.7	16.9	6.1	135	21.3	19.7

Date	AUGUST Net Water Loss (mm)	AUGUST Wind Run (km)	AUGUST Average Water Temp. (°c)	AUGUST Average Air Temp. (°c)	SEPTEMBER Net Water Loss (mm)	SEPTEMBER Wind Run (km)	SEPTEMBER Average Water Temp. (°c)	SEPTEMBER Average Air Temp. (°c)	OCTOBER Net Water Loss (mm)	OCTOBER Wind Run (km)	OCTOBER Average Water Temp. (°c)	OCTOBER Average Air Temp. (°c)
1	9.0	55	25.0	22.8	3.4	122	13.2	13.0	4.8	222	9.8	10.2
2	6.6	28	26.2	23.5	0.6	45	13.0	13.5	3.4	236	8.8	9.8
3	7.3	46	26.5	24.0	3.6	112	14.8	12.8	0.8	114	8.8	7.8
4	8.0	54	26.5	24.8	3.0	68	14.0	11.8	2.3	248	5.0	4.0
5	6.0	66	27.0	25.2	4.4	106	15.8	14.2	2.4	161	9.2	9.8
6	7.8	70	27.5	25.5	6.4	324	16.2	17.2	0.6	43	12.8	14.2
7	6.7	79	26.0	25.0	3.4	108	13.2	13.2	2.2	97	14.2	13.0
8	8.7	171	22.2	22.0	1.0	104	12.5	10.5	1.0	19	12.2	11.0
9	5.8	187	21.5	18.2	0.8	90	12.8	10.5	2.4	83	14.5	14.8
10	4.8	79	19.0	16.8	2.2	54	10.0	8.8	1.2	151	13.8	14.5
11	5.7	144	21.5	19.8	1.4	72	11.0	10.5	1.4	276	14.2	15.0
12	5.8	114	22.8	21.5	0.2	191	10.5	11.0	2.2	230	15.0	15.8
13	8.1	195	25.8	25.5	2.2	165	9.5	8.0	2.0	110	M	15.0
14	7.1	183	23.2	23.5	3.4	112	9.5	8.0	1.0	153	14.0	12.8
15	5.1	119	18.5	16.2	3.5	111	10.0	9.5	2.9	439	10.2	11.2
16	4.8	135	19.5	19.0	3.4	229	14.0	15.2	3.6	242	4.5	4.2
17	7.0	144	20.8	20.5	4.2	158	15.5	16.5	0.0	186	2.0	3.2
18	5.2	65	22.8	22.2	6.4	135	16.8	16.5	3.3	329	4.0	4.2
19	9.5	176	23.5	23.8	6.6	208	15.8	16.0	2.4	292	1.8	2.0
20	0.8	120	17.5	18.5	1.3	90	13.8	12.5	0.7	44	2.2	1.8
21	7.9	316	17.2	15.8	2.0	304	11.5	13.5	0.8	26	4.2	2.8
22	2.8	66	16.2	13.5	6.6	345	10.8	9.8	0.8	152	3.8	2.0
23	5.0	97	19.2	16.8	-1.0	217	5.0	3.5	Pan shutdown for season.			
24	6.4	238	21.2	21.0	4.0	256	2.2	0.5				
25	5.8	198	23.5	23.2	-0.6 *	134	2.8	1.0				
26	5.0	186	24.2	24.8	1.1 *	99	4.0	2.5				
27	9.0	116	24.2	26.0	0.8 *	127	4.5	3.5				
28	9.4	163	21.2	24.2	3.0 *	107	7.2	5.8				
29	9.0	240	17.0	18.2	2.4	102	8.8	7.8				
30	4.8	222	13.5	13.6	2.4	56	9.8	7.0				
31	4.4	143	13.5	12.2								
Total	199.3	4215	674.2	647.8	82.1	4351	328.5	304.1	(42.2)	(3853)	(185.0)	(199.1)
Mean	6.4	136	21.7	20.9	2.7	145	11.0	10.1	(1.9)	(175.1)	(8.8)	(9.0)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 45. Rawson Lake Watershed summary of evaporation pan data for 1985

Date	MAY Net Water Loss (mm)	MAY Wind Run (km)	MAY Average Water Temp. (c)	MAY Average Air Temp. (c)	JUNE Net Water Loss (mm)	JUNE Wind Run (km)	JUNE Average Water Temp. (c)	JUNE Average Air Temp. (c)	JULY Net Water Loss (mm)	JULY Wind Run (km)	JULY Average Water Temp. (c)	JULY Average Air Temp. (c)
1	5.0	139	12.2	11.8	5.6	272	9.2	5.8	7.4	164	19.5	12.5
2	6.2		15.5	13.0	3.1	118	11.2	8.0	7.7	122	22.0	19.3
3	8.3	(364)*	15.0	13.5	5.8	86	16.0	12.2	5.0	128	21.2	19.2
4	3.4	151	13.5	10.5	2.8	110	10.8	9.8	6.0	142	22.2	21.5
5	6.0	144	15.8	13.5	5.6	100	17.2	13.2	7.2	108	23.0	21.2
6	3.4	116	12.0	11.0	2	227	12.5	24.0	7.2	142	23.2	21.2
7	5.0	84	16.5	13.2	7	154	19.2	18.0	8.2	127	23.3	22.3
8	9.2	242	17.2	17.8	5.9	357	16.8	15.5	8.2	145	17.5	20.5
9	7.4	129	17.2	17.0	3.3	220	10.8	11.5	9.4	206	17.9	15.8
10	8.1	243	17.2	16.5	5.6	94	14.5	10.2	11.3	168	17.2	15.2
11	0.7	118	12.2	12.5	7	168	14.8	13.0	5.9	131	17.6	17.0
12	6.2	178	14.2	12.2	3.7	99	14.5	12.2	7.4	91	23.0	21.8
13	5.8	112	14.8	13.0	5.8	34	18.0	15.0	4.4	120	21.2	19.2
14	0.8	155	12.0	11.2	6.6	60	22.2	18.2	5.0	167	M	M
15	3.4	329	9.0	8.5	0.2	81	14.8	13.8	5.8	143	17.2	15.5
16	5.6	199	14.0	12.2	4.6	123	13.8	12.2	5.8	94	22.0	21.2
17	8.6	218	14.2	14.2	4.1	199	16.0	13.0	4.0	42	24.0	20.8
18	9.0	276	14.8	14.2	7.1	211	15.2	14.0	7.8	112	21.5	18.2
19	2.6		7.4	7.8	5.5	91	18.0	15.8	7.2	154	21.0	18.5
20	3.0	(361)*	10.5	7.2	7.1	144	20.2	18.8	7.2	145	18.5	15.8
21	6.2	117	15.5	13.5	10.4	213	16.8	14.8	6.6	150	17.0	17.0
22	7.2	81	18.0	16.8	1.4	318	8.5	8.2	6.0	160	18.0	17.2
23	8.8	162	20.2	18.8	4.8	173	13.5	12.0	3.9	180	18.0	18.8
24	7.8	117	17.5	14.0	6.4	174	17.5	14.8	7.2	126	19.5	16.5
25	2.4	55	14.8	11.5	1.5	202	15.5	15.0	5.2	129	19.5	17.0
26	6.9	133	14.5	12.0	1.1	148	14.0	12.8	5.6	83	20.5	16.8
27	5.4	77	16.2	12.0	1.8	316	12.2	12.0	5.8	146	19.8	19.2
28	7.3	111	19.0	15.5	0.4	71	14.0	12.8	4.4	176	17.8	15.5
29	0.0	125	12.0	13.5	1.6	35	16.0	14.2	5.4	56	19.2	17.2
30	1.6	117	14.0	13.0	6.4	93	23.0	19.8	4.8	70	19.8	18.2
31	4.6	191	15.2	12.5					6.4	33	23.0	19.8
Total	165.9	4844	452.1	403.9	134.2	4691	456.7	409.6	199.4	3970	605.7	551.9
Mean	5.4	167	14.6	13.0	4.5	156	15.2	13.7	6.4	128	20.2	18.4

Date	AUGUST Net Water Loss (mm)	AUGUST Wind Run (km)	AUGUST Average Water Temp. (c)	AUGUST Average Air Temp. (c)	SEPTEMBER Net Water Loss (mm)	SEPTEMBER Wind Run (km)	SEPTEMBER Average Water Temp. (c)	SEPTEMBER Average Air Temp. (c)	OCTOBER Net Water Loss (mm)	OCTOBER Wind Run (km)	OCTOBER Average Water Temp. (c)	OCTOBER Average Air Temp. (c)
1	9.3	100	23.5	21.8	4.0	63	16.2	12.2	1.5	99	7.0	5.5
2	4.4	124	22.2	21.8	1.3	109	12.0	11.2	2.4	137	8.8	8.8
3	4.2	144	20.8	20.8	0.8	70	13.5	12.5	1.6	109	10.8	9.5
4	1.2	90	18.5	18.5	2.8	114	14.5	8.8	0.8	233	7.2	6.2
5	2.4	66	20.8	20.0	2.0	197	17.0	16.0	1.4	155	7.0	5.0
6	6.6	147	21.8	20.0	6.8	191	15.8	12.8	0.8	75	5.8	3.2
7	6.8	104	21.8	18.0	4.8	178	15.0	12.5	3.6 *	362	2.2	1.2
8	5.0	241	22.2	22.2	4.8	195	13.2	10.8	Pan shutdown for season.			
9	5.2	248	16.5	19.8	1.8	122	12.8	9.2				
10	4.4	94	17.2	15.5	3.4	69	13.0	9.8				
11	4.0	107	16.5	16.5	3.4	33	14.5	11.2				
12	3.0	244	13.8	14.2	4.8	142	13.2	11.8				
13	2.4	330	12.0	11.2	4.2	182	13.0	13.2				
14	0.4	126	12.2	11.2	0.4	144	12.0	12.2				
15	3.8	76	16.8	13.8	2.4	285	13.5	13.8				
16	11.2	186	19.0	16.5	0.4	128	15.8	15.5				
17	1.3	165	14.2	13.8	4.2	84	18.0	16.0				
18	0.7	227	11.2	9.5	0.0 E	179	14.8	14.0				
19	2.6	78	12.2	11.0	0.2	212	6.0	6.2				
20	3.4	38	15.2	12.2	0.8	127	4.8	4.5				
21	2.8	80	16.5	16.0	1.8	181	8.5	8.0				
22	0.8	106	14.0	13.5	1.0	129	9.0	7.8				
23	0.8	100	12.8	13.0	1.0	310	4.8	4.0				
24	4.8	59	18.5	22.8	1.0	235	4.0	3.8				
25	6.2	71	21.0	18.0	2.0	136	6.8	4.2				
26	4.6	152	18.0	16.2	4.2	213	8.5	7.0				
27	3.6	115	16.5	13.5	1.2	217	7.5	7.0				
28	4.8	67	16.8	13.2	0.8	144	5.0	3.2				
29	5.8	47	18.0	15.2	1.8	148	6.0	3.8				
30	4.6	240	18.5	18.0	1.3	164	4.5	3.0				
31	1.8	217	13.5	13.0								
Total	122.9	4189	532.5	500.7	69.4	4701	333.2	286.0	(12.1)	(1170)	(48.8)	(39.4)
Mean	4.0	135	17.2	16.2	2.3	157	11.1	9.5	(1.7)	(167)	(7.0)	(5.6)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 46. Rawson Lake Watersned summary of evaporation pan data for 1986.

Date	APRIL Net Water Loss (mm)	APRIL Wind Run (km)	APRIL Average Water Temp. (°c)	APRIL Average Air Temp. (°c)	MAY Net Water Loss (mm)	MAY Wind Run (km)	MAY Average Water Temp. (°c)	MAY Average Air Temp. (°c)	JUNE Net Water Loss (mm)	JUNE Wind Run (km)	JUNE Average Water Temp. (°c)	JUNE Average Air Temp. (°c)	JULY Net Water Loss (mm)	JULY Wind Run (km)	JULY Average Water Temp. (°c)	JULY Average Air Temp. (°c)
1					2.0	190	5.0	1.3	4.6	84	15.8	10.8	4.6	153	18.3	15.8
2					0.0	100	9.3	4.0	4.0	258	13.8	13.8	5.8	72	20.5	16.3
3					7.2	210	12.3	11.5	7.2	233	17.0	13.8	7.6	188	23.3	22.5
4					8.0	199	17.3	16.5	6.4	105	16.5	10.5	10.4	98	24.3	21.8
5					2.1	247	11.8	7.0	6.5	100	17.5	16.0	5.4	236	20.0	20.8
6					1.4	220	7.0	5.0	8.0	250	18.8	18.0	7.6	290	18.0	18.0
7					4.0	226	7.5	6.0	9.6	224	15.3	13.3	7.6	152	20.0	17.8
8					1.4	244	4.8	4.5	5.2	96	16.0	18.0	6.2	63	21.5	18.3
9					-1.1	260	8.8	14.3	5.6	134	19.8	19.0	6.8	54	22.0	19.3
10					2.8	153	13.0	12.8	4.8	249	17.0	14.0	5.4	109	17.8	17.3
11					4.0	148	15.0	13.5	4.8	179	16.0	14.5	2.0	167	13.5	13.5
12					3.0	157	15.0	13.3	6.4	213	15.8	14.8	0.8	209	12.5	13.3
13					6.0	75	16.3	14.8	5.2	179	15.5	13.5	1.6	50	15.0	14.3
14					7.0	190	17.8	15.0	5.2	101	15.0	13.8	3.4	87	20.0	18.8
15					4.4	81	14.3	11.8	5.8	153	13.5	12.5	5.8	62	25.3	22.0
16					6.6	247	12.0	8.8	6.0	137	13.8	11.5	3.0	69	24.0	21.5
17					2.4	128	7.5	5.0	4.8	54	18.0	17.8	0.7	125	22.0	21.3
18					4.6	88	12.8	8.5	9.0	94	24.8	22.8	8.6	118	25.2	23.3
19					5.4	95	15.3	11.3	12.0	218	22.3	20.8	9.9	136	22.2	19.3
20					7.2	74	17.3	14.8	2.7	55	15.3	14.8	6.0	84	20.5	17.3
21					8.8	133	14.0	15.8	0.0	95	21.5	19.5	7.4	161	21.5	19.8
22					9.2	184	16.8	16.8	9.4	228	18.0	16.0	7.2	79	23.8	21.3
23					7.4	122	17.5	18.3	4.4	151	12.8	11.5	3.2	154	22.0	21.8
24	4.0	215	10.0	7.3	4.8	119	16.8	17.3	7.1	178	17.5	15.0	6.0	171	21.0	19.8
25	1.6	380	5.0	5.3	8.2	124	20.5	21.5	6.0	129	20.5	20.3	6.8	72	22.2	19.8
26	-0.4	94	4.8	5.3	8.4	67	23.5	23.5	3.8	166	20.5	20.0	7.8	108	24.0	21.8
27	5.0	259	5.5	4.8	8.8	79	23.5	24.3	8.8	181	19.8	17.3	4.0	41	24.2	21.3
28	1.2	164	5.0	3.3	9.4	101	24.5	25.5	8.2	235	16.5	16.5	4.3	87	22.0	20.0
29	4.9	124	11.3	8.3	10.6	137	24.8	26.0	4.9	43	18.3	14.5	5.9	129	23.2	23.5
30	2.2	296	5.3	6.3	11.6	240	20.0	21.2	5.8	65	20.3	18.3	8.2	182	21.8	19.8
31					3.3	210	13.8	12.8					4.9	152	21.8	17.0
Total	(18.5)	(1532)	(46.9)	(40.6)	168.9	4848	455.8	422.7	182.2	4587	523.2	472.9	174.9	3858	653.4	598.4
Mean	(2.6)	(219)	(6.7)	(5.8)	5.4	156	14.7	13.6	6.1	153	17.4	15.8	5.6	124	21.1	19.3

Table 46. (continued)

Date	AUGUST				SEPTEMBER				OCTOBER			
1	3.2	139	15.8	14.8	5.4	208	15.8	13.0	0.8	20	10.5	10.0
2	4.4	163	17.8	16.5	2.6	184	13.0	13.5	1.3	209	6.8	4.8
3	5.8	88	21.3	20.0	1.2	142	15.0	13.8	0.0	105	6.5	4.8
4	3.6	53	19.5	17.8	3.7	264	11.5	9.8	3.4	231	5.8	5.0
5	7.2	62	22.5	19.0	4.2	202	10.5	7.5	0.2	140	2.5	1.3
6	5.4	158	24.0	21.0	2.6	130	11.0	8.8	0.4	79	4.8	7.5
7	2.5	126	19.3	18.0	5.4	207	13.5	11.8	0.6	139	6.0	6.0
8	6.1	114	21.3	20.0	3.4	65	12.5	8.3	2.6	156	4.5	1.5
9	3.2	150	14.8	13.5	3.0	62	12.8	11.5	2.0	236	4.5	3.5
10	6.2	144	16.0	13.3	4.6	107	13.8	12.8	0.0	222	4.8	4.5
11	4.0	81	17.3	16.0	4.2	67	16.5	15.0	Pan shutdown for season.			
12	5.8	131	21.5	19.0	2.4	205	9.3	7.5				
13	2.4	119	21.0	19.8	1.4	65	8.8	7.8				
14	6.0	62	23.3	20.8	1.2	52	7.8	6.8				
15	11.3	175	22.3	21.3	1.6	53	8.8	7.0				
16	11.4	167	18.8	17.3	3.0	184	9.8	10.5				
17	3.5	71	18.8	14.8	0.8	77	10.0	9.3				
18	4.8	78	21.0	18.5	1.2	34	11.0	9.8				
19	5.9	242	20.0	19.3	2.0	65	10.5	10.3				
20	7.1	172	16.3	14.0	2.2	68	14.8	13.0				
21	4.8	105	17.8	16.0	1.6	86	11.3	11.0				
22	1.1	62	14.3	13.8	3.8	124	14.0	12.0				
23	4.6	56	19.5	15.8	2.2	73	14.3	13.5				
24	4.2	235	17.3	17.0	3.8	179	16.8	17.0				
25	5.4	242	15.8	13.0	1.6	208	12.3	12.5				
26	4.1	163	11.5	9.3	1.7	231	12.0	11.8				
27	4.2	142	11.8	11.0	0.3	65	11.0	10.3				
28	4.0	153	13.5	13.5	0.6	37	12.8	12.0				
29	5.2	146	17.5	18.3	2.2	79	12.5	10.5				
30	4.8	139	19.8	19.3	2.1	61	10.8	8.8				
31	4.0	164	19.3	17.5								
Total	156.2	4102	570.7	519.2	76.0	3584	364.5	327.2	(11.3)	(1537)	(56.7)	(48.9)
Mean	5.0	132	18.4	16.7	2.5	119	12	10.9	(1.1)	(154)	(5.7)	(4.9)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 47. Rawson Lake Watershed summary of evaporation pan data for 1987.

	APRIL				MAY				JUNE				JULY			
Date	Net Water Loss (mm)	Wind Run (km)	Average Water Temp. (°C)	Average Air Temp. (°C)	Net Water Loss (mm)	Wind Run (km)	Average Water Temp. (°C)	Average Air Temp. (°C)	Net Water Loss (mm)	Wind Run (km)	Average Water Temp. (°C)	Average Air Temp. (°C)	Net Water Loss (mm)	Wind Run (km)	Average Water Temp. (°C)	Average Air Temp. (°C)
1					5.8	133	12.3	8.0	4.5	145	16.5	17.5	1.9	74	16.0	16.8
2					7.6	105	12.0	8.8	8.0	277	12.0	12.0	4.4	138	16.5	15.0
3					5.2	113	13.8	11.3	3.6	173	14.0	9.0	6.0	50	22.3	19.0
4					4.6	79	12.8	12.8	7.2	95	15.8	11.5	8.2	113	24.0	21.5
5					8.6	230	15.8	15.8	3.8	52	18.5	15.8	5.0	62	21.5	19.8
6					5.2	120	13.0	11.5	3.3	43	18.8	17.0	5.8	45	26.5	23.8
7					5.8	111	13.5	10.8	5.4	213	17.0	14.5	9.6	130	23.8	21.8
8					10.6	256	16.8	20.5	4.8	93	15.8	12.5	8.4	66	22.8	19.5
9					7.0	124	14.3	12.8	4.8	48	18.5	15.5	6.8	109	23.3	22.8
10					5.6	196	14.3	14.8	6.6	207	18.0	16.3	4.4	81	23.0	22.0
11					4.6	130	13.0	8.0	2.6	102	18.5	18.5	2.3	175	18.0	16.5
12					9.2	310	16.0	16.8	7.2	109	22.5	20.0	1.9	204	12.0	9.0
13					6.0	188	14.0	14.0	10.4	103	25.8	25.8	5.6	95	17.0	13.5
14					5.6	115	15.3	11.8	10.6	127	21.8	19.5	2.2	52	15.5	13.8
15					5.7	171	18.0	17.8	9.0	125	23.5	23.5	3.2	142	19.8	17.5
16	1.2	110	8.5	7.3	3.0	81	13.3	11.5	10.0	109	26.5	26.0	7.7	160	23.5	23.0
17	4.6	119	13.3	15.3	3.0	162	9.0	8.0	7.2	143	25.8	23.5	9.0	160	22.5	21.0
18	6.8	204	17.8	21.3	7.2	168	13.0	10.5	9.2	86	23.0	21.0	1.0	247	16.5	16.0
19	9.0	262	17.3	15.5	0.5	24	9.8	8.3	7.2	19	25.3	22.3	1.4	81	17.5	16.8
20	2.8	247	6.5	2.0	2.0	131	9.8	7.5	7.2	54	26.0	23.5	5.6	99	22.0	20.8
21	3.6	124	10.5	7.0	1.7	331	2.5	0.5	4.0	42	24.8	22.8	5.4	93	20.8	18.8
22	7.6	236	12.0	11.3	4.7	77	9.3	6.5	8.8	68	27.8	26.0	1.2	53	19.8	18.5
23	5.8	115	11.0	7.5	4.4	61	15.5	10.5	5.8	105	23.5	20.8	6.0	110	21.8	19.8
24	5.0	140	11.0	11.0	3.8	53	18.4	9.5	6.1	95	19.5	18.5	7.2	85	23.3	20.5
25	2.4	90	13.3	10.3	2.7	82	14.0	13.3	4.9	140	22.0	15.0	4.1	94	19.0	21.3
26	7.8	296	11.8	12.5	0.4	30	12.3	11.5	1.7	157	14.3	12.0	9.7	22	24.8	21.0
27	4.8	161	11.5	8.0	1.8	79	19.3	19.3	6.8	111	19.3	16.5	9.2	31	26.0	23.0
28	9.6	338	13.0	10.8	8.4	173	22.8	20.8	7.2	101	18.8	15.8	6.8	68		25.3
29	7.0	153	10.5	6.8	6.2	72	23.0	18.3	4.3	95	16.0	14.5	8.9	72	26.3	26.3
30	3.0	55	9.0	5.5	7.2	52	23.5	21.0	4.8	44	21.5	17.0	7.6	69	24.3	23.3
31					8.6	110	21.0	22.3					2.8	76	20.3	18.5
Total	(81.0)	(2650)	(177.0)	(152.1)	162.7	4067	451.4	394.8	187.0	3281	611.1	544.1	169.3	3056	630.4	606.2
Mean	(5.4)	(177)	(11.8)	(10.1)	5.2	131	14.6	12.7	6.2	109	20.4	18.1	5.5	99	21.0	19.6

Table 47. (continued)

Date	AUGUST				SEPTEMBER				OCTOBER			
1	0.8	48	21.8	21.5	5.0	161	14.3	11.5	3.0	453	6.0	6.8
2	7.2	81	25.0	23.8	4.0	186	10.5	12.5	2.0	121	3.8	3.3
3	6.3	178	18.0	15.0	4.8	319	16.8	19.0	5.0	219	9.5	10.3
4	3.8	44	19.0	15.0	3.4	100	18.8	16.8	4.6	272	11.5	14.3
5	7.3	173	22.5	20.0	1.7	29	15.5	14.5	0.4	374	5.0	5.3
6	5.0	126	19.0	17.3	4.2	114	19.3	17.5	3.0	232	4.0	2.0
7	6.4	45	21.5	20.3	2.6	71	15.3	14.8	0.8	63	2.5	0.5
8	6.6	136	22.8	21.8	4.8	93	15.8	14.5				
9	5.8	98	21.0	18.5	2.2	57	16.3	15.3				
10	7.7	222	22.3	21.5	1.8	70	10.8	10.0				
11	9.2	97	20.5	21.0	2.4	42	11.5	11.3				
12	2.4	67	17.5	16.5	1.0	43	13.3	11.5				
13	4.8	51	19.0	16.0	1.0	51	12.5	11.0				
14	5.4	173	22.0	22.5	4.8	133	15.0	16.5				
15	4.0	70	24.0	21.8	4.6	60	18.5	16.8				
16	4.4	200	18.5	16.5	4.8	112	17.5	17.0				
17	2.2	83	16.5	14.5	3.6	37	14.8	14.8				
18	4.8	138	17.3	16.0	1.1	124	12.5	11.5				
19	5.0	121	17.3	16.0	3.2	230	13.0	14.3				
20	6.0	143	20.5	18.3	1.6	123	12.3	12.3				
21	5.8	249	17.8	17.3	2.1	50	14.8	13.5				
22	5.6	208	8.8	11.5	5.6	207	15.8	16.5				
23	1.4	114	14.3	12.0	4.6	108	11.8	10.0				
24	7.2	126	17.0	15.5	3.5	80	11.0	9.5				
25	1.0	35	16.5	15.0	2.4	68	11.8	11.5				
26	4.9	71	17.8	17.5	5.2	61	14.3	14.5				
27	4.2	37	19.3	20.0	3.3	123	15.0	14.5				
28	5.8	135	19.3	20.0	2.9	160	10.5	11.3				
29	6.0	247	17.8	20.3	3.8	211	9.8	10.0				
30	5.0	270	11.8	11.8	3.0	195	8.5	9.3				
31	4.0	125	12.3	10.8								
Total	156.0	3911	578.7	545.5	99.0	3418	417.6	404.0	(18.8)	(1734)	(42.3)	(42.5)
Mean	5.0	126	18.7	17.6	3.3	114	13.9	13.5	(2.7)	(248)	(6.0)	(6.1)

Notes:
1. M indicates a missing value.
2. * indicates pan was covered with ice at the time of observation.
3. All values apply to an "evaporation day" from 08:00 A.M. to 08:00 A.M. central standard time.
4. () indicate that the monthly total or mean is based on less then a complete month's record.
5. ()* indicates that the value shown is a total or mean for more than one day.

Table 48. Summary of measured net water loss data from the Experimental Lakes Area evaporation pan for the period 1969 to 1987.

Year	Period of record		Days	Number of ice-free days	Total measured net pan loss (mm)
	Start	End			
1969	Jun 27	Oct 14	- incomplete season of record -		
1970	May 8	Oct 7	153	183	625.1
1971	May 15	Oct 27	165	194	575.8
1972	May 10	Oct 15	159	193	654.0
1973	May 4	Oct 14	164	201	622.8
1974	May 2	Oct 13	165	190	650.0
1975	May 8	Oct 23	168	200	654.0
1976	May 1	Oct 13	166	199	789.0
1977	May 2	Oct 31	183	209	607.8
1978	May 4	Oct 31	181	197	617.2
1979	May 9	Oct 10	154	182	661.2
1980	May 1	Oct 21	174	209	774.2
1981	May 1	Sep 30	153	213	740.5
1982	May 1	Oct 13	166	203	680.1
1983	May 1	Oct 12	165	210	774.8
1984	May 1	Oct 22	175	205	817.0
1985	May 1	Oct 7	160	211	703.9
1986	Apr 24	OCT 10	170	204	787.9
1987	Apr 16	Oct 7	175	218	873.8
Mean			166.4	201.1	700.5
SD			8.6	9.7	82.8

Notes:
1. The net water loss data for each year are for slightly different periods of record in each case.
2. Pan coefficients have not been applied.

APPENDIX 6

SUMMARY OF RELATIVE HUMIDITY DATA

Tables 49 to 54 provide a summary of mean daily and monthly relative humidity data for the 6 years, 1982 to 1987. Similar data for the 1969 to 1978 and 1979 to 1981 periods have been reported previously (Beaty 1981 and Beaty 1984).

Relative humidity is the ratio of the amount of moisture in a given space to the amount the space could contain if saturated. These data are used, along with air temperature records, to calculate the actual vapour pressure term in mass transfer evaporation equations.

These data were determined using a Cassella London recording thermohygrogragh with a weekly chart for the years 1982 to 1985. This recorder was only operated during the open water season. In 1986 and 1987, a Bestellzeichen thermohygrograph was operated year round but only April to November values were reported to cover the open water season. Both instruments were located in a Stevenson screen shelter at the Station 1 meteorological site (Fig. 1). Routine checks were made using either a sling psychrometer or a ventilated hygrometer to verify the reliability of the recorder. Although only mean daily values are included in this report, instantaneous humidity values can be scaled directly from the charts. All original charts are on file with the ELA hydrologic studies group.

Table 49. Summary of relative humidity data from the Rawson Lake meteorological station for 1982.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	42	86	56	83	87	77	79
2	---	49	64	85	88	80	91	86
3	---	56	65	77	82	69	79	78
4	---	84	56	84	77	65	80	80
5	---	57	79	87	70	69	83	81
6	---	66	69	70	73	67	89	81
7	---	83	90	75	73	81	92	85
8	---	74	82	63	84	79	86	72
9	---	69	92	68	71	77	86	---
10	---	91	64	62	64	82	91	---
11	---	79	64	65	63	85	92	---
12	---	60	61	71	71	86	92	---
13	---	90	64	80	72	82	88	---
14	---	91	76	76	83	78	66	---
15	---	91	66	88	70	72	72	---
16	---	94	84	81	60	76	70	---
17	---	92	70	78	56	75	89	---
18	---	92	64	70	76	76	86	---
19	---	87	74	71	61	77	79	---
20	---	60	81	71	74	73	69	---
21	---	66	76	63	90	72	73	---
22	---	48	66	61	81	67	72	---
23	---	47	72	73	66	89	75	---
24	---	54	75	67	70	74	76	---
25	---	73	61	67	73	72	77	---
26	---	64	67	64	69	73	76	---
27	---	58	57	67	63	87	65	---
28	---	60	51	63	65	91	84	---
29	49	72	62	83	82	76	86	---
30	58	87	57	73	73	76	69	---
31		97		76	89		69	---
MEAN	---	72	70	72	73	77	80	---

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

Table 50. Summary of relative humidity data from the Rawson Lake meteorological station for 1983.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	57	55	85	66	71	90	90
2	---	50	67	89	80	64	89	84
3	---	69	83	92	83	61	88	73
4	---	63	80	78	73	62	90	63
5	---	59	52	65	68	80	88	84
6	---	56	62	71	50	75	71	85
7	---	48	50	76	58	79	78	85
8	---	45	69	72	59	83	83	77
9	---	48	62	71	69	79	68	81
10	---	68	67	82	77	76	86	77
11	---	83	66	76	71	75	79	75
12	---	82	75	67	56	70	85	75
13	---	71	82	67	65	73	87	91
14	---	69	91	71	60	71	69	89
15	---	75	83	68	65	85	78	88
16	---	68	74	76	80	81	87	90
17	---	54	63	69	67	86	69	84
18	---	70	63	78	68	75	77	91
19	---	77	68	83	60	77	83	92
20	---	72	76	77	74	89	73	93
21	---	75	80	68	83	---	80	---
22	---	75	80	61	60	83	78	---
23	---	56	69	74	63	72	76	---
24	---	65	60	67	81	74	82	---
25	---	46	75	64	72	69	74	---
26	---	51	73	70	62	71	78	---
27	---	54	64	84	74	71	72	---
28	---	70	58	84	78	79	80	---
29	70	77	70	66	79	78	78	---
30	68	71	88	82	71	89	75	---
31		54		79	69		86	
MEAN	---	64	70	74	71	73	80	83

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

Table 51. Summary of relative humidity data from the Rawson Lake meteorological station for 1984.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	70	58	69	61	70	62	80
2	---	59	55	81	61	72	63	79
3	---	44	54	56	64	78	75	79
4	---	47	68	74	62	78	86	83
5	---	49	87	80	66	70	75	74
6	---	73	88	62	66	69	80	77
7	---	85	73	65	69	84	81	---
8	---	83	88	76	62	85	87	---
9	---	70	87	59	76	85	76	---
10	---	74	87	60	73	86	82	---
11	---	82	65	66	75	75	83	---
12	---	64	87	73	74	85	79	---
13	---	51	83	73	69	74	87	---
14	---	42	68	69	74	67	91	---
15	---	42	80	70	73	64	84	---
16	---	65	79	72	72	62	78	---
17	---	52	85	66	64	65	85	---
18	---	61	68	66	58	57	80	---
19	---	81	65	58	62	60	85	---
20	---	79	60	60	84	74	92	---
21	---	73	80	77	72	81	88	---
22	---	60	86	79	73	63	84	---
23	---	54	80	63	74	79	79	---
24	---	78	64	62	68	91	82	---
25	---	64	67	68	74	85	90	---
26	78	63	88	70	77	83	77	---
27	84	55	69	61	58	80	87	---
28	80	66	63	65	54	65	80	---
29	64	45	64	74	50	67	83	---
30	68	61	63	86	61	64	73	---
31		64		74	71		82	
MEAN	75	63	74	69	68	74	81	79

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

Table 52. Summary of relative humidity data from the Rawson Lake meteorological station for 1985.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	45	67	72	64	74	69	93
2	---	53	56	68	71	94	73	---
3	74	51	56	76	87	82	79	---
4	67	83	72	79	92	92	86	78
5	62	59	59	64	86	83	84	69
6	68	80	76	73	79	76	86	83
7	67	56	57	76	70	73	78	87
8	62	57	68	66	70	76	---	---
9	56	51	72	65	74	78	85	---
10	58	49	60	57	70	70	83	---
11	49	86	53	66	78	70	74	85
12	55	80	63	69	95	64	90	85
13	66	59	58	78	92	71	73	85
14	72	69	48	76	90	88	84	85
15	63	87	84	73	77	82	80	85
16	52	66	78	71	77	90	83	85
17	59	44	76	79	91	78	84	90
18	62	56	64	87	93	73	69	86
19	57	61	61	72	84	94	68	85
20	70	65	68	63	80	88	64	90
21	77	56	85	68	75	81	84	---
22	77	48	87	72	92	88	87	---
23	84	45	66	83	92	89	77	---
24	85	55	61	70	70	88	77	---
25	88	71	83	71	70	67	67	---
26	72	56	89	70	85	69	67	---
27	68	50	91	71	71	84	83	---
28	55	54	90	81	73	---	60	---
29	66	85	89	70	72	84	68	---
30	52	82	74	72	74	78	70	---
31		69		66	95		83	
MEAN	66	62	70	72	80	80	77	85

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

Table 53. Summary of relative humidity data from the Rawson Lake meteorological station for 1986.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	36	73	63	84	85	75	83	65
2	37	42	72	60	81	99	98	74
3	58	53	58	71	67	96	75	80
4	47	74	52	73	89	87	88	89
5	82	96	54	83	72	70	79	97
6	77	85	57	63	79	69	95	83
7	57	73	61	64	95	68	93	93
8	65	80	52	64	69	62	61	97
9	34	72	55	61	89	62	56	88
10	38	90	87	63	68	63	83	90
11	48	90	77	92	64	67	90	93
12	69	74	69	90	68	91	77	87
13	71	59	70	90	90	76	81	89
14	54	52	66	84	78	70	75	89
15	59	49	84	76	70	78	83	90
16	58	58	55	91	67	66	84	94
17	53	77	54	95	66	98	86	85
18	67	63	52	67	67	90	83	85
19	96	51	55	72	79	82	80	88
20	85	46	91	81	65	71	73	---
21	50	36	88	68	63	98	70	---
22	48	38	65	54	88	84	85	---
23	68	52	76	88	70	79	92	---
24	65	62	64	72	83	73	85	94
25	67	51	79	65	81	91	84	95
26	99	43	85	72	65	95	86	78
27	100	40	58	80	63	99	94	74
28	99	44	60	81	54	93	80	89
29	71	48	69	76	71	91	68	90
30	86	60	68	66	75	82	80	89
31		93		73	90		82	
MEAN	65	62	67	75	75	81	82	87

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

Table 54. Summary of relative humidity data from the Rawson Lake meteorological station for 1987.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	53	59	81	82	95	67	72	70
2	38	45	64	87	70	75	63	99
3	54	38	66	59	69	75	53	99
4	58	48	61	59	67	74	64	84
5	43	51	56	75	71	87	95	59
6	37	49	76	73	79	71	72	64
7	34	54	87	59	66	81	66	70
8	52	36	62	59	73	66	77	67
9	43	39	56	57	71	68	84	71
10	65	59	69	74	63	95	68	73
11	68	65	89	94	87	94	63	69
12	67	57	64	93	81	92	64	74
13	53	73	56	65	54	82	48	85
14	41	58	39	82	70	70	69	77
15	56	60	52	77	86	64	75	92
16	81	65	52	78	83	61	85	99
17	58	67	65	64	79	69	85	91
18	39	51	60	84	79	90	74	89
19	45	81	45	94	65	78	81	77
20	74	92	55	73	64	86	91	71
21	59	95	71	70	68	65	79	68
22	44	61	68	92	70	62	74	85
23	45	65	73	70	75	56	92	84
24	38	77	68	54	64	55	83	84
25	66	78	78	68	77	58	80	93
26	64	99	85	58	68	58	86	96
27	50	86	60	51	60	75	84	98
28	48	72	57	61	65	94	83	99
29	45	69	71	53	77	55	72	99
30	60	57	61	55	67	67	82	95
31		51		92	64		78	
MEAN	53	63	65	71	72	73	76	83

Notes: 1. Values are daily mean relative humidity in % based on thermohygrograph recorder charts.
2. --- indicates that the recorder was not in service and no data exists.

APPENDIX 7

SUMMARY OF BRIGHT SUNSHINE DATA

Tables 55 to 60 summarize the daily total hours of bright sunshine received at ELA in the years 1982 to 1987. Similar records for the 1969 to 1978 and 1979 to 1981 periods were published previously (Beaty 1981 and 1984). Hourly values for each day have not been included here but are available on request.

Bright sunshine observations in Canada and much of the world are made with the Campbell-Stokes sunshine recorder. The instrument consists of an optical glass sphere which focuses the rays of the sun on a curved, specially treated burn chart. A trace is recorded on the chart only when the sun is at an angle greater than 3 degrees elevation and completely unobstructed by haze or cloud. Charts are changed each evening in order to receive the sun for the next day. This instrument is a duration sunshine recorder only, and provides no information about the actual solar energy. Solar radiation data have been measured and reported by the Canada Centre for Inland Waters (1969-1977) and also by the ELA Primary Production staff in all years (J. Shearer and E. Debryun, ELA, unpublished data).

An historical summary of monthly total, daily mean and per cent of maximum possible values is provided in Table 61 for the 1969 to 1987 period of record.

Table 55. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1982.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.3	4.4	5.6	7.4	12.3	0.1	14.3	0.5	1.5	3.9	7.3	0.0
2	0.0	8.1	8.6	0.0	3.8	12.7	1.0	2.3	3.2	0.0	0.0	0.0
3	6.1	7.7	2.5	0.0	10.7	12.8	0.0	5.1	10.9	2.8	0.0	0.0
4	4.8	7.0	2.2	9.2	8.0	13.9	3.4	10.3	8.4	2.4	0.0	0.0
5	0.0	5.7	7.2	9.5	10.2	11.1	2.7	10.8	6.6	0.2	1.0	2.4
6	5.9	0.1	9.0	10.9	10.2	3.2	9.4	6.9	9.0	0.0	1.9	1.1
7	4.2	2.1	9.2	10.3	0.0	0.0	7.3	11.2	1.9	0.1	4.2	3.6
8	7.0	0.8	9.0	7.0	6.3	0.1	13.1	3.8	6.6	0.1	0.0	6.2
9	0.5	7.6	0.0	3.2	1.7	0.4	4.8	5.8	8.0	0.0	1.7	0.0
10	0.3	6.0	0.0	0.0	7.0	12.0	10.2	12.8	3.9	0.0	0.0	5.9
11	5.1	6.8	7.8	4.0	3.6	10.6	9.0	12.6	0.0	0.0	0.0	5.9
12	5.2	5.2	0.0	3.7	8.4	5.9	12.3	11.3	0.7	0.0	4.3	0.8
13	3.0	7.9	1.7	7.1	0.0	8.1	3.8	7.6	0.6	0.0	1.9	0.0
14	3.6	0.6	8.1	10.2	0.0	9.8	8.5	6.3	2.0	8.8	0.1	0.0
15	4.3	8.4	0.6	8.2	0.0	13.4	0.1	11.5	7.9	4.5	4.4	0.0
16	0.0	0.0	2.5	4.5	0.0	1.1	6.6	12.8	5.0	0.6	1.1	4.6
17	2.3	0.0	0.0	3.5	0.0	10.3	6.0	12.6	4.1	0.0	0.4	0.0
18	5.7	0.0	6.7	8.4	0.0	4.9	7.4	5.3	2.0	0.1	2.5	0.0
19	5.5	0.0	8.8	12.7	0.1	6.6	11.9	12.5	2.8	0.0	0.0	0.0
20	2.8	0.0	9.1	12.6	13.3	7.3	13.4	8.9	8.6	0.9	0.0	0.0
21	6.9	0.5	3.9	12.0	13.3	8.5	13.1	0.6	9.1	8.1	5.2	0.0
22	0.0	0.9	9.7	12.6	12.7	10.0	10.5	7.0	9.2	8.5	1.6	0.0
23	2.1	5.5	1.4	12.3	12.9	8.1	2.8	12.0	0.0	6.1	2.1	0.0
24	5.8	7.3	0.6	12.3	13.5	6.8	8.2	9.6	4.0	8.2	0.1	0.0
25	7.5	4.3	9.0	8.6	8.4	13.1	11.8	3.6	7.1	7.7	5.3	3.5
26	0.0	0.0	9.9	10.9	12.7	9.9	13.1	4.4	8.5	0.8	6.5	1.3
27	0.0	7.0	9.8	12.4	13.4	13.7	11.0	12.6	0.0	5.3	0.0	0.0
28	7.1	0.0	2.2	12.4	11.6	7.1	11.2	11.6	0.0	0.6	5.2	1.0
29	0.8		0.0	12.5	6.7	14.8	2.8	2.4	5.5	0.0	0.2	4.7
30	7.4		0.0	7.9	5.4	13.2	12.0	6.4	0.1	7.5	0.0	2.8
31	6.3		0.4		1.4		6.6	0.0		6.8		0.0
Total	115.5	103.9	145.5	246.3	207.6	249.5	248.3	241.1	137.2	84.0	57.0	43.8
Mean	3.7	3.7	4.7	8.2	6.7	8.3	8.0	7.8	4.6	2.7	1.9	1.4

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.

2. Hourly values have not been included in this report but are available on request.

Table 56. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1983.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.1	0.0	0.0	0.0	12.6	10.5	0.0	12.7	8.6	0.0	0.0	0.3
2	5.7	4.0	0.0	1.6	12.3	2.4	0.0	5.2	9.1	0.0	4.2	5.3
3	0.0	3.9	0.0	4.4	3.9	0.3	0.0	5.5	11.9	0.0	7.4	0.0
4	0.0	3.8	0.0	9.8	11.2	0.6	3.3	12.8	8.0	0.1	3.5	0.0
5	0.0	7.8	0.0	9.8	8.1	8.0	13.9	12.4	6.7	0.1	0.0	3.2
6	0.0	6.3	0.0	5.2	12.8	12.0	12.5	11.4	6.3	7.1	1.7	0.1
7	1.4	0.0	0.0	10.0	13.0	13.9	7.7	12.0	5.0	5.2	0.1	0.0
8	0.0	0.0	0.0	9.5	12.5	0.8	13.8	12.7	0.6	7.4	4.5	6.1
9	0.0	0.3	7.7	6.5	8.4	13.9	7.8	4.6	6.4	8.3	0.0	6.0
10	0.0	0.0	8.1	1.1	0.4	7.1	11.3	7.6	3.1	0.0	0.2	0.6
11	6.0	0.0	8.6	9.6	1.5	13.8	4.8	9.3	2.4	0.7	6.3	0.0
12	0.0	0.0	6.5	4.6	2.7	4.4	12.7	12.9	5.3	0.3	0.7	3.4
13	0.0	5.6	0.0	0.0	6.1	5.4	12.3	11.7	4.6	0.1	0.0	1.9
14	6.3	0.0	7.5	5.6	7.8	0.0	12.9	12.9	6.9	9.0	0.0	0.0
15	0.0	0.0	0.0	11.8	11.1	2.9	11.6	8.7	0.0	1.2	0.0	0.0
16	2.6	0.0	0.3	12.0	13.2	4.4	4.0	0.3	0.1	0.7	0.0	0.4
17	5.3	1.3	0.0	12.0	8.2	13.1	8.1	12.4	0.2	7.1	0.6	2.4
18	0.0	0.0	0.3	12.2	11.4	13.8	4.7	12.3	0.0	8.5	0.0	5.1
19	1.7	0.0	0.0	11.5	1.9	6.8	4.9	12.4	0.4	2.4	0.0	5.7
20	6.5	0.0	7.5	0.9	6.8	5.7	10.2	2.5	2.1	9.2	0.0	5.6
21	0.0	0.0	7.7	11.0	4.8	5.6	13.0	4.6	0.4	0.4	0.0	0.0
22	M	7.2	7.4	12.1	5.7	6.0	13.7	11.9	3.6	6.3	0.0	1.2
23	M	0.6	8.9	12.3	7.8	11.2	6.4	9.8	7.3	2.0	0.0	1.8
24	0.6	8.7	8.8	12.4	9.5	9.9	12.1	5.3	8.8	0.0	0.0	4.0
25	5.2	4.2	5.2	6.5	12.7	6.5	11.5	12.9	4.2	2.7	0.0	0.0
26	6.0	0.0	0.0	2.9	14.0	12.2	7.3	12.4	9.3	8.2	0.0	0.0
27	0.8	0.0	2.0	3.0	3.9	13.8	0.6	6.3	5.9	5.8	0.0	0.0
28	0.0	0.0	9.4	1.4	5.0	14.2	8.0	9.7	3.6	4.7	0.0	3.2
29	0.0		6.8	0.0	5.4	6.6	10.8	4.2	5.0	6.3	0.0	0.0
30	0.0		0.0	6.7	5.5	0.3	3.7	9.2	0.0	8.4	0.0	2.5
31	4.8		0.0		12.7		7.5	12.0		1.6		2.1
Total	(59.0)	53.7	102.7	206.4	252.9	226.1	251.1	290.6	135.8	113.8	29.2	60.9
Mean	(2.0)	1.9	3.3	6.9	8.2	7.5	8.1	9.4	4.5	3.7	1.0	2.0

For 1983: Total 1782.2 hours
Mean 4.9 hours

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.
2. Hourly values have not been included in this report but are available on request.
3. ( ) indicate a total or mean that is based on less than a full months record.

Table 57. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1984.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.3	0.0	9.0	9.9	2.7	7.9	5.0	12.9	1.8	9.0	1.0	0.0
2	0.0	0.0	6.8	6.9	12.8	12.1	6.6	12.0	0.1	5.8	0.5	0.0
3	0.0	0.0	1.7	9.2	13.2	13.4	13.7	13.3	5.1	6.9	0.6	4.4
4	4.5	2.9	0.0	6.5	12.0	2.5	10.5	11.7	7.1	0.0	0.0	2.0
5	0.0	6.8	8.7	6.7	12.8	3.0	1.9	13.1	9.9	7.8	2.6	5.2
6	0.0	0.0	9.2	8.6	1.9	0.0	13.4	12.9	9.4	0.2	7.9	0.5
7	1.2	3.6	8.0	10.3	0.0	7.1	11.7	6.2	0.0	3.3	3.5	0.0
8	2.7	4.4	9.2	7.4	0.0	0.0	8.4	10.2	1.2	2.8	0.0	0.7
9	3.2	5.7	9.0	3.6	7.9	0.0	13.1	10.0	1.7	8.4	5.7	2.4
10	6.4	0.0	2.8	1.0	5.2	10.8	9.8	7.1	0.0	1.8	5.7	3.3
11	0.1	0.0	9.1	0.2	0.3	11.8	12.7	7.7	2.5	0.0	5.2	0.0
12	3.4	0.0	6.2	8.5	8.7	0.1	8.1	12.8	0.0	3.8	3.9	6.4
13	6.4	0.0	4.9	10.3	12.2	3.9	11.3	11.5	2.8	0.6	5.0	6.0
14	6.4	0.0	0.0	12.6	13.5	13.2	9.2	6.6	6.2	0.0	0.0	0.0
15	0.0	0.0	0.9	12.4	13.6	0.0	4.9	7.1	3.6	0.0	0.0	0.0
16	4.2	0.0	7.7	12.6	2.4	8.3	6.0	7.1	9.2	0.7	6.3	0.0
17	2.0	0.0	2.3	12.6	8.5	0.6	12.3	12.9	9.1	0.5	7.5	0.0
18	6.2	9.2	7.9	12.7	8.2	13.0	11.4	12.4	9.8	0.0	7.4	0.0
19	1.7	4.5	8.3	12.4	0.9	6.5	14.0	9.1	8.0	0.0	4.7	1.1
20	6.8	4.5	4.6	12.7	0.9	14.7	11.5	1.6	8.7	0.0	4.3	0.0
21	6.5	4.6	0.6	12.7	3.1	1.9	3.7	10.3	0.7	0.0	0.0	0.0
22	0.0	4.3	9.6	12.6	10.2	2.2	7.9	6.4	6.7	0.5	0.0	0.2
23	0.0	0.1	0.0	11.0	11.7	6.3	14.3	10.9	0.2	0.4	3.8	1.1
24	2.0	7.8	2.3	8.2	6.1	13.5	13.8	11.2	0.0	0.0	5.5	0.0
25	8.3	9.3	6.8	10.5	1.9	10.2	6.3	11.7	0.4	0.0	2.6	3.5
26	0.1	9.3	3.7	0.0	8.4	0.2	7.1	7.5	3.2	3.2	0.0	0.0
27	0.0	4.3	8.3	1.4	14.0	13.8	13.5	12.0	3.1	0.1	0.0	0.0
28	0.0	3.9	9.7	0.0	7.4	14.8	9.8	7.7	8.8	0.1	0.0	0.0
29	0.0		7.5	7.1	13.5	14.8	7.7	8.9	9.2	2.2	0.0	3.1
30	0.0		9.9	0.0	8.6	12.3	0.4	4.3	9.3	7.6	0.0	3.4
31	0.0		10.2		7.2		6.3	9.9		0.0		4.5
Total	76.5	85.2	184.9	240.6	229.8	218.9	286.3	299.0	137.8	65.7	83.7	47.8
Mean	2.5	3.0	6.0	8.0	7.4	7.3	9.2	9.6	4.6	2.1	2.8	1.5

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.

2. Hourly values have not been included in this report but are available on request.

Table 58. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1985.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.6	5.1	8.0	11.1	7.2	5.0	12.6	13.4	8.8	6.8	0.2	0.0
2	5.3	6.1	5.4	4.3	10.9	7.2	11.0	7.6	0.0	6.6	7.7	1.1
3	3.3	7.6	5.9	0.2	9.6	14.1	5.1	0.4	0.0	7.1	8.2	0.0
4	0.4	8.6	0.0	0.0	4.6	2.4	10.9	0.1	2.9	3.4	0.6	0.0
5	2.3	3.8	8.9	5.9	8.4	13.3	12.5	1.2	7.3	5.5	1.7	5.2
6	0.0	4.6	0.1	9.2	1.8	0.6	8.5	10.1	10.5	3.6	3.6	0.0
7	0.0	6.1	8.3	6.7	13.3	14.4	12.7	13.3	9.6	1.6	0.5	0.0
8	4.3	6.0	9.0	6.8	7.5	4.7	11.4	11.6	6.4	0.0	8.2	0.0
9	0.0	0.0	8.8	8.1	10.1	14.4	11.8	2.6	2.9	0.0	6.0	0.0
10	3.8	1.4	8.7	10.9	5.7	0.0	13.6	9.8	10.2	4.4	6.4	6.0
11	5.3	1.7	7.2	11.4	0.0	12.0	9.7	2.9	10.8	7.2	0.7	3.2
12	0.4	8.3	8.6	1.2	3.0	6.9	13.3	0.0	10.1	0.0	0.6	5.6
13	0.0	3.5	7.2	7.0	10.4	12.4	9.2	0.0	6.4	9.0	3.9	1.6
14	7.2	6.8	0.1	6.6	0.0	11.1	M	0.9	0.0	2.9	0.0	0.0
15	3.9	2.9	7.0	11.2	0.0	0.0	8.0	2.9	0.0	1.2	5.1	5.6
16	0.0	1.0	9.4	10.1	9.0	3.0	11.0	8.6	0.1	0.0	5.1	4.0
17	0.1	7.4	9.1	4.5	12.7	6.1	9.2	0.7	4.9	0.6	0.0	6.5
18	4.7	7.0	9.0	7.7	8.3	9.0	4.6	0.0	5.0	9.1	0.0	1.4
19	5.9	5.4	9.8	12.6	3.4	11.4	13.5	0.6	0.0	8.3	0.0	3.0
20	0.0	8.9	8.9	7.3	6.7	13.2	11.7	1.2	4.3	6.6	0.0	4.5
21	6.8	0.0	8.3	3.8	13.0	3.3	13.3	9.6	6.1	9.3	3.6	0.0
22	0.3	0.0	2.0	1.2	13.6	0.0	4.8	0.0	0.0	0.0	0.0	3.9
23	0.0	0.0	2.5	0.0	14.7	8.0	1.7	0.0	0.0	4.8	0.0	6.0
24	1.2	5.5	9.5	0.0	12.4	9.1	9.2	12.7	0.5	2.9	0.0	2.0
25	0.4	0.0	6.2	0.0	2.1	0.0	9.5	10.7	8.3	3.8	0.0	2.5
26	0.0	8.3	0.0	10.8	10.3	0.0	13.5	5.4	7.0	7.9	0.0	1.1
27	2.1	0.0	0.0	3.3	13.7	0.0	8.2	12.6	3.2	4.9	0.0	4.7
28	0.1	4.9	0.0	12.6	12.4	0.0	7.1	6.7	0.0	0.1	0.0	0.0
29	0.0		9.4	10.9	0.0	0.2	12.2	12.4	0.5	6.5	0.0	5.6
30	4.3		10.2	12.6	0.2	13.4	7.4	11.2	0.0	5.0	0.0	2.9
31	0.7		10.2		5.1		9.2	0.0		6.7		6.9
Total	66.4	120.9	197.7	198.0	230.1	195.2	(296.4)	169.2	125.8	135.8	62.1	83.3
Mean	2.1	4.3	6.4	6.6	7.4	6.5	(9.9)	5.4	4.2	4.4	2.1	2.7

For 1985: Total 1880.9 hours
Mean 5.2 hours

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.
2. Hourly values have not been included in this report but are available on request.
3 ( ) indicate a total or mean that is based on less than a full months record.

Table 59. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1986.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.7	0.0	0.2	10.2	7.4	10.5	5.9	3.8	7.9	0.6	0.0	6.4
2	1.6	0.0	0.0	2.1	13.5	3.1	14.7	8.2	0.0	0.0	4.9	0.6
3	0.0	0.0	0.0	7.2	11.0	6.0	9.8	11.2	0.5	7.2	7.9	0.0
4	3.9	0.0	0.0	9.1	9.4	14.5	8.3	4.2	3.1	0.4	1.6	4.5
5	4.7	0.0	9.2	0.0	0.0	6.5	4.2	13.0	10.4	0.2	0.0	0.0
6	4.7	0.0	9.0	2.0	0.7	7.8	14.7	9.4	7.3	0.0	1.3	6.2
7	1.0	1.5	7.9	10.3	4.9	12.7	13.6	1.6	8.6	0.0	0.0	6.8
8	0.2	1.5	0.0	6.4	0.0	13.8	11.7	12.1	11.0	5.2	0.0	0.0
9	3.4	6.8	0.0	11.7	0.1	5.2	14.0	2.3	8.1	8.9	0.0	0.0
10	1.6	8.1	8.0	11.8	0.2	0.0	1.8	11.8	3.1	0.0	2.1	1.8
11	4.2	6.8	2.2	5.8	3.0	6.1	0.0	12.7	9.9	0.9	0.0	2.3
12	6.2	6.2	8.7	1.9	6.4	9.8	0.0	13.0	2.3	3.4	3.7	5.6
13	1.1	0.1	7.3	0.2	11.2	9.6	0.0	4.0	2.8	0.0	5.5	0.0
14	4.2	1.4	9.4	3.6	11.6	11.2	7.8	7.7	0.4	0.5	0.1	0.0
15	0.0	6.5	9.5	9.9	6.1	6.8	11.9	10.5	4.0	0.0	3.6	0.0
16	0.0	0.0	8.0	12.2	12.8	11.5	1.7	12.4	6.0	0.0	0.0	0.0
17	0.0	0.0	0.1	3.9	0.1	11.2	0.3	13.2	0.0	9.3	3.7	0.0
18	0.0	0.0	6.1	2.5	10.2	12.2	12.2	12.2	1.0	7.6	7.2	4.8
19	0.0	0.0	9.4	0.0	14.2	14.5	11.9	7.4	2.7	9.4	0.0	5.7
20	0.0	8.9	9.4	0.0	13.9	0.0	8.4	10.5	7.5	7.2	5.3	2.9
21	1.9	4.6	7.8	12.9	14.3	6.2	12.5	13.0	0.0	9.0	3.1	0.0
22	6.7	8.9	5.4	7.9	14.2	7.8	14.1	0.0	8.1	8.1	0.0	5.0
23	1.5	7.7	7.9	7.6	9.1	5.9	2.8	12.8	8.5	0.0	2.9	3.2
24	0.0	7.4	0.0	11.5	3.2	14.5	10.4	3.6	6.1	5.0	3.3	0.0
25	0.0	0.0	0.0	0.9	12.8	6.7	13.4	6.8	0.0	7.9	0.0	0.6
26	8.2	0.0	2.9	0.0	13.3	4.4	8.6	7.0	0.0	6.0	7.4	2.4
27	0.0	8.8	5.1	0.0	13.6	14.7	M	8.0	0.1	0.0	6.3	4.5
28	0.6	4.1	9.0	0.0	13.8	13.2	11.7	10.2	0.2	2.2	0.1	0.0
29	7.1		5.0	11.6	13.8	10.8	6.6	12.2	3.3	3.4	6.4	0.0
30	7.2		7.9	0.1	13.1	7.3	9.4	12.2	7.4	4.6	5.1	0.0
31	6.2		2.0		13.1		6.9	3.4		0.3		0.0
Total	76.9	89.3	157.4	163.3	271.0	264.5	(249.3)	270.4	130.3	107.3	81.5	63.3
Mean	2.5	3.2	5.1	5.4	8.7	8.8	(8.3)	8.7	4.3	3.5	2.7	2.0

For 1986: Total 1925 hours
Mean 5.3 hours

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.
2. Hourly values have not been included in this report but are available on request.
3. ( ) indicate a total or mean that is based on less than a full months record.

Table 60. Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1987.

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.3	0.0	2.2	10.2	13.2	5.4	0.0	0.0	11.5	4.0	8.7	3.6
2	0.0	0.0	2.0	10.3	13.6	9.5	3.4	9.7	9.9	6.8	0.0	6.3
3	0.0	0.0	0.5	8.5	13.0	12.9	14.9	7.7	7.2	9.4	0.0	3.8
4	0.0	3.2	6.6	9.9	7.5	14.7	14.4	12.2	4.2	7.1	3.2	1.3
5	0.0	5.7	1.6	11.1	10.9	14.7	2.0	10.2	0.3	0.0	6.4	0.6
6	0.0	6.7	3.5	10.9	8.6	5.6	10.0	8.1	8.7	5.9	0.0	0.0
7	6.3	1.5	8.0	10.7	9.4	5.8	11.8	10.9	2.4	0.5	4.2	0.0
8	0.5	8.5	9.4	10.3	13.3	11.4	14.2	9.9	8.0	0.0	8.4	0.0
9	0.0	5.3	9.4	10.2	9.0	10.9	5.6	9.7	7.2	4.2	8.7	0.0
10	0.0	1.1	7.1	9.6	6.7	9.1	7.0	11.1	0.0	7.3	1.8	0.5
11	6.1	0.1	6.4	6.0	9.0	4.5	0.0	3.2	0.0	7.0	4.3	0.0
12	3.3	5.8	9.1	7.3	10.4	14.4	0.0	10.8	1.7	7.4	4.1	0.0
13	0.0	0.0	6.1	1.4	4.8	14.3	14.4	9.0	2.9	3.1	4.1	0.1
14	4.9	8.4	9.2	12.8	11.9	14.3	2.2	9.2	9.2	7.5	1.8	0.6
15	5.9	0.2	8.2	12.2	10.7	14.2	9.8	6.2	9.2	2.3	0.0	0.0
16	6.8	5.8	1.9	3.5	2.8	14.6	11.3	3.6	8.9	0.0	0.0	5.0
17	0.0	6.5	0.0	6.3	0.1	13.0	7.4	5.2	0.5	4.7	0.0	0.0
18	2.6	0.0	6.4	8.4	10.5	12.3	0.1	8.8	0.1	0.2	1.2	0.0
19	0.0	0.0	0.0	8.7	0.0	14.5	0.2	11.3	0.2	2.0	1.0	0.3
20	3.5	0.0	8.3	0.4	0.0	14.5	9.7	13.0	0.2	1.4	7.7	0.0
21	0.0	1.8	9.1	12.6	0.0	3.0	7.2	8.1	7.4	2.2	3.4	0.0
22	7.8	0.0	7.5	11.7	10.4	13.4	0.8	11.8	9.0	3.4	3.3	0.0
23	8.0	0.1	0.0	12.9	11.7	11.2	9.4	9.7	8.5	0.0	5.0	0.0
24	7.3	0.0	0.0	5.5	8.7	5.5	13.6	11.1	9.1	4.0	4.2	0.0
25	8.4	0.0	0.0	8.0	0.0	9.6	12.7	3.1	9.4	6.9	0.0	5.9
26	0.1	0.0	5.7	8.8	0.0	3.6	13.9	10.7	9.2	1.1	0.0	3.5
27	0.7	0.2	0.1	12.3	6.6	11.8	13.9	11.6	3.9	0.1	0.0	3.5
28	0.6	0.0	9.7	11.8	9.9	10.0	12.5	12.3	0.1	1.0	0.0	0.0
29	0.0		4.3	13.4	10.9	4.0	11.9	8.3	8.3	1.7	0.0	0.0
30	0.3		7.0	0.3	13.2	13.1	10.8	7.7	7.1	0.9	0.0	0.0
31	0.1		3.0		12.1		1.9	7.2		4.4		6.2
Total	78.5	60.9	152.3	266.0	248.9	315.8	247.0	271.4	164.3	106.5	81.5	41.2
Mean	2.5	2.2	4.9	8.9	8.0	10.5	8.0	8.8	5.5	3.4	2.7	1.3

For 1987: Total 2034 hours
Mean 5.6 hours

Notes: 1. All values are daily total sunshine in hours measured with a Campbell Stokes sunshine recorder.
2. Hourly values have not been included in this report but are available on request.
3. ( ) indicate a total or mean that is based on less than a full months record.

Table 61. Historical summary of monthly bright sunshine records for the Experimental Lakes Area for the period 1969 to 1987.

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	%
Max possible		267.0	281.5	317.5	412.9	477.3	488.9	492.6	448.5	379.4	334.2	273.0	253.3	4426.1	100
1969	Total							266.1	249.5	130.5	64.0	64.0	29.8		
	Mean							8.6	8.0	4.4	2.1	2.1	1.0		
	%							54.0	55.6	34.4	19.2	23.4	11.8		
1970	Total	84.7	136.6	208.9	133.0	161.3	269.3	287.8	291.3	135.0	88.6	46.6	61.4	1904.5	43.0
	Mean	2.7	4.9	6.7	4.4	5.2	9.0	9.3	9.4	4.5	2.9	1.6	2.0		
	%	31.7	48.5	65.8	32.2	33.8	55.1	58.4	64.9	35.6	26.5	17.1	24.2		
1971	Total	82.6	122.1	125.2	199.1	264.3	234.3	285.2	258.1	141.3	75.3	34.6	49.7	1871.8	42.3
	Mean	3.2	4.4	4.0	6.6	8.5	7.8	9.2	8.3	4.7	2.4	1.2	1.6		
	%	30.9	43.4	39.4	48.2	55.4	47.9	57.9	57.5	37.2	22.5	12.7	19.6		
1972	Total	87.1	116.5	119.8	134.9	260.7	293.5	252.7	235.2	146.0	100.5	40.0	55.6	1842.5	41.6
	Mean	2.8	4.0	3.9	4.5	8.4	9.8	8.2	7.6	4.9	3.2	1.3	1.8		
	%	32.6	41.4	37.7	32.7	54.6	60.0	51.3	52.4	38.5	30.1	14.7	22.0		
1973	Total	60.6	89.8	166.7	175.7	241.7	170.5	253.3	238.0	157.0	107.3	37.9	74.0	1772.5	40.0
	Mean	2.0	3.2	5.4	5.9	7.8	5.7	8.2	7.7	5.2	3.5	1.3	2.4		
	%	22.7	31.9	52.5	42.6	50.6	34.9	51.4	53.1	41.4	32.1	13.9	29.2		
1974	Total	82.9	137.6	131.7	186.3	173.1	300.5	292.7	185.4	134.9	113.9	44.0	43.3	1826.3	41.3
	Mean	2.7	4.9	4.2	6.2	5.6	10.0	9.4	6.0	4.5	3.7	1.5	1.4		
	%	31.0	48.9	41.5	45.1	36.3	61.5	59.4	41.3	35.6	34.1	16.1	17.1		
1975	Total	79.3	107.0	126.3	167.6	260.0	207.4	306.4	210.3	144.0	136.2	78.4	66.6	1889.5	42.7
	Mean	2.6	3.8	4.1	5.6	8.4	6.9	9.9	6.8	4.8	4.4	2.6	2.1		
	%	29.7	38.0	39.8	40.6	54.5	42.4	62.2	46.9	38.0	40.8	28.7	26.3		
1976	Total	66.9	104.6	124.3	231.2	305.8	253.9	316.5	289.2	197.7	82.4	80.3	72.3	2125.1	48.0
	Mean	2.2	3.6	4.0	7.7	9.9	8.5	10.2	9.3	6.6	2.7	2.7	2.3		
	%	25.1	37.2	39.1	56.0	64.1	51.9	64.3	64.5	52.1	24.7	29.4	28.5		
1977	Total	63.7	83.9	123.1	203.9	267.4	218.7	289.8	221.0	96.0	142.2	59.0	69.4	1838.1	41.5
	Mean	2.1	3.0	4.0	6.8	8.6	7.3	9.3	7.1	3.2	4.6	2.0	2.2		
	%	23.9	29.8	38.8	49.4	56.0	44.7	58.8	49.3	25.3	42.5	21.6	27.4		
1978	Total	106.2	147.0	151.8	199.2	230.7	229.5	242.3	209.0	132.7	124.1	77.3	71.3	1921.1	43.4
	Mean	3.4	5.3	4.9	6.6	7.4	7.7	7.8	6.7	4.4	4.0	2.6	2.3		
	%	39.8	52.2	47.8	48.2	48.3	46.9	49.2	46.6	35.0	37.1	28.3	28.1		
1979	Total	91.0	107.3	134.2	150.2	152.0	277.4	280.6	215.9	140.7	72.1	76.1	59.7	1757.2	39.7
	Mean	2.9	3.8	4.3	5.0	4.9	9.2	9.1	7.0	4.7	2.3	2.5	1.9		
	%	34.1	38.1	42.3	36.4	31.8	56.7	57.0	48.1	37.1	21.6	27.9	23.6		
1980	Total	75.5	108.8	161.7	251.5	185.6	182.8	282.3	212.9	142.5	112.4	74.9	51.7	1842.6	41.6
	Mean	2.4	3.8	5.2	8.4	6.2	6.3	9.1	6.9	4.8	3.6	2.5	1.7		
	%	28.3	38.7	50.9	60.9	38.9	37.4	57.3	47.5	37.6	33.6	27.4	20.4		
1981	Total	9[illegible].9	71.5	92.9	142.0	268.3	209.7	313.8	255.0	206.9	72.9	72.8	48.6	1850.3	41.8
	Mean	3.1	2.6	3.0	4.7	8.7	7.0	10.1	8.2	6.9	2.4	2.4	1.6		
	%	35.9	25.4	29.3	34.4	56.2	42.9	63.7	56.9	54.5	21.8	26.7	19.2		
1982	Total	115.5	103.9	145.5	246.3	207.6	249.5	248.3	241.1	137.2	84.0	57.0	43.8	1879.7	42.5
	Mean	3.7	3.7	4.7	8.2	6.7	8.3	8.0	7.8	4.6	2.7	1.9	1.4		
	%	43.3	36.9	45.8	59.7	43.5	51.0	50.4	53.8	36.2	25.1	20.9	17.3		
1983	Total	59.0	53.7	102.7	206.4	252.9	226.1	251.1	290.6	135.8	113.8	29.2	60.9	1782.2	40.3
	Mean	2.0	1.9	3.3	6.9	8.2	7.5	8.1	9.4	4.5	3.7	1.0	2.0		
	%	22.1	19.1	32.3	50.0	53.0	46.2	51.0	64.8	35.8	34.1	10.7	24.0		
1984	Total	76.5	85.2	184.9	240.6	229.8	218.9	286.3	299.0	137.8	65.7	83.7	47.8	1956.2	44.2
	Mean	2.5	2.9	6.0	8.0	7.4	7.3	9.2	9.6	4.6	2.1	2.8	1.5		
	%	28.7	30.3	58.2	58.3	48.1	44.8	58.1	66.7	36.3	19.7	30.7	18.9		
1985	Total	66.4	120.9	197.7	198.0	230.1	195.2	296.4	169.2	125.8	135.8	62.1	83.3	1880.9	42.5
	Mean	2.1	4.3	6.4	6.6	7.4	6.5	9.9	5.5	4.2	4.4	2.1	2.7		
	%	24.9	42.9	62.3	48.0	48.2	39.9	60.2	37.7	33.2	40.6	22.7	32.9		
1986	Total	76.9	89.3	157.4	163.3	271.0	264.5	249.3	270.4	130.3	107.3	81.5	63.3	1924.5	43.5
	Mean	2.5	3.2	5.1	5.4	8.7	8.8	8.3	8.7	4.3	3.5	2.7	2.0		
	%	28.8	31.7	49.6	39.5	56.8	54.1	50.6	60.3	34.3	32.1	29.9	25.0		
1987	Total	78.5	60.9	152.3	266.0	248.9	315.8	247.0	271.4	164.3	106.5	81.5	41.2	2034.3	46.0
	Mean	2.5	2.2	4.9	8.9	8.0	10.5	8.0	8.8	5.5	3.4	2.7	1.3		
	%	29.4	21.6	48.0	64.4	52.1	64.6	50.1	60.5	43.3	31.9	29.9	16.3		
Mean month		80.5	102.6	144.8	194.2	234.0	239.9	263.4	230.7	136.6	95.2	60.1	54.7	1883.3	42.5
Mean day		2.6	3.6	4.7	6.5	7.6	8.0	8.9	7.8	4.8	3.2	2.1	1.9		
Mean %		30.2	36.4	45.6	47.0	49.0	49.1	53.5	51.4	36.0	28.5	22.0	21.6		

Notes: All totals and means are hours of bright sunshine as recorded on a Campbell- Stokes bright sunshine recorder.

APPENDIX 8

SURFACE WATER TEMPERATURE FOR RAWSON LAKE

Tables 62 to 67 provide a summary of Rawson Lake surface water temperature for the open water seasons 1982 to 1987. Similar data for the years 1969 to 1978 and 1979 to 1981 were published previously (Beaty 1981 and Beaty 1984).

The daily temperatures reported are mean daily temperatures determined from a floating Ryan Peabody recording thermograph. All values were measured near the lake centre. Surface temperature data are used in hydrometeorological studies to compute the saturated vapour pressure term in mass transfer evaporation equations and is also useful in other limnological applications. To define the open water season for the lake, dates of ice-off and ice-on are included.

Table 62. Rawson Lake surface temperature data in degrees celsius for 1982.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	---	15.5	19.5	21.5	15.8	11.0	6.8
2	---	ice off	15.0	19.5	20.5	15.5	10.9	6.7
3	---	---	14.5	18.8	20.5	15.4	10.9	6.3
4	---	---	14.5	18.8	21.2	15.5	10.8	5.5
5	---	6.5	15.0	19.0	22.0	15.5	10.5	---
6	---	6.5	15.2	19.5	22.2	15.2	10.0	---
7	---	6.0	15.0	19.0	22.2	15.2	9.8	---
8	---	7.0	14.5	19.0	21.5	15.5	9.8	5.0[A]
9	---	7.0	14.2	19.0	19.5	16.3	9.8	---
10	---	6.5	13.7	19.5	19.2	17.0	9.5	---
11	---	7.0	14.0	20.0	19.3	17.2	9.3	---
12	---	7.5	14.0	20.5	19.2	16.9	9.1	---
13	---	7.5	15.0	21.0	19.2	16.2	9.0	---
14	---	8.0	16.0	21.0	19.8	M	9.0	B
15	---	8.0	15.5	21.0	20.0	M	9.0	C
16	---	8.0	15.5	21.5	20.2	M	8.5	ice off
17	---	8.5	15.5	21.0	20.8	M	8.3	---
18	---	9.0	15.0	20.0	21.0	M	8.1	---
19	---	9.0	15.2	20.5	20.8	M	8.0	---
20	---	9.0	15.5	21.0	20.3	M	7.5	---
21	---	10.5	15.7	21.0	20.2	13.5[A]	7.1	C
22	---	12.0	17.0	22.0	20.0	13.5	7.1	ice on
23	---	13.5	17.5	21.5	19.8	13.4	7.0	---
24	---	14.5	17.2	21.5	19.7	13.0	7.0	---
25	---	15.5	18.0	22.0	19.0	12.8	7.0	---
26	---	17.0	18.0	22.0	18.3	12.7	7.0	---
27	---	19.0	18.0	22.5	17.5	12.2	7.0	---
28	---	20.0	18.2	23.0	17.0	11.8	7.1	---
29	---	20.5	18.0	22.5	16.8	11.8	7.1	---
30	---	19.5	18.5	22.5	16.3	11.3	6.9	---
31	---	18.0	---	22.5	16.0	---	6.8	---
Mean	---	(11.2)	15.8	20.7	19.7	(14.5)	8.6	---

Ice off: May 2 Ice on: Nov 21 Total ice free days: 203

Notes:
1. All temperatures are mean daily values determined from a floating surface water temperature recorder unless indicated "A".
2. A indicates a manual thermometer reading.
3. --- indicates no data or not applicable.
4. ( ) indicate a mean value based on less than a full months record.
5. B ice began to form, C 80% ice cover.
6. M missing data, recorder broke away and washed on shore.
7. Ice went off Nov. 16 and on again Nov. 21/22. The lake opened up (10%) in the center December 1-3.

Table 63. Rawson Lake surface temperature data for 1983.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	---	12.6	19.0	23.8	22.7	11.9	6.8
2	---	---	13.3	19.4	23.5	22.8	11.9	6.8
3	---	---	13.5	19.0	23.3	22.5	11.5	6.3
4	---	B	13.1	18.6	23.9	21.9	11.2	6.0
5	---	C	12.9	18.2	24.5	21.6	11.1	5.9
6	---	---	12.9	18.5	24.8	21.0	11.0	5.8
7	---	---	13.3	19.5	24.6	20.5	10.8	5.8
8	---	---	13.4	20.9	23.9	20.1	10.6	5.6
9	---	---	14.5	21.5	23.4	19.9	10.3	5.5
10	---	6.2	14.7	22.3	23.0	19.3	9.9	5.3
11	---	6.0	15.4	21.6	23.4	18.4	9.8	---
12	---	5.8	16.7	20.7	22.8	17.9	9.3	---
13	---	6.0	16.8	21.5	22.8	17.5	9.0	---
14	---	6.0	17.0	24.7	23.3	17.4	8.7	---
15	---	6.1	16.9	24.9	22.9	16.7	8.2	---
16	---	6.7	16.1	24.3	22.5	16.1	8.1	---
17	---	7.0	17.6	23.9	22.2	15.6	7.9	---
18	---	7.6	18.0	24.1	22.6	14.6	7.8	---
19	---	8.0	18.1	23.9	22.4	13.7	7.5	---
20	---	9.5	18.2	25.0	21.7	13.1	7.3	---
21	---	9.2	19.0	24.5	21.1	12.5	7.3	---
22	---	9.2	19.2	24.6	21.0	12.0	7.3	---
23	---	9.8	20.3	23.6	21.1	11.5	7.2	---
24	---	9.7	21.4	M	21.4	11.4	7.2	---
25	---	10.5	21.0	M	21.7	11.8	7.1	---
26	---	11.1	21.4	M	22.4	12.0	7.1	---
27	---	12.0	20.5	M	23.3	12.3	7.0	---
28	---	12.1	21.0	23.5	22.5	12.5	7.0	---
29	---	11.7	21.0	23.8	22.3	12.4	6.9	---
30	---	11.6	20.5	23.8	23.0	12.0	6.8	---
31		11.8		23.2	22.8		6.8	
Mean	---	(8.8)	17.0	(21.3)	22.8	16.4	8.5	---

Ice off: May 5 Ice on: Dec 1 Total ice free days: 210

Notes: 1. All temperatures are mean daily values in °C determined from a floating surface water temperature recorder.

2. --- indicates no data or not applicable.

3. B indicates that the lake began to open and was 35% ice free by mid afternoon.

4. C indicates that the lake was 75% ice free by morning and 100% ice free by late afternoon.

5. ( ) indicate a mean value based on less than a full months record.

6. M indicates missing data.

Table 64. Rawson Lake surface temperature data in degrees celsius for 1984.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	---	16.6	M	23.6	20.0	9.9	5.4
2	---	---	15.9	22.8[A]	24.9	19.5	9.8	4.6
3	---	7.5[A]	16.2	M	25.3	19.1	9.5	4.3
4	---	---	16.1	21.0	25.3	18.6	9.2	4.2
5	---	---	16.3	20.8	25.6	18.5	9.2	4.0
6	---	---	16.2	20.2	26.1	18.4	9.4	---
7	---	6.8	16.6	20.4	26.5	18.0	9.7	C
8	---	7.0	16.7	20.6	26.4	17.5	10.2	---
9	---	7.0	16.5	21.4	25.4	17.4	10.6	---
10	---	7.4	16.0	22.1	24.5	17.0	10.8	---
11	---	7.3	16.4	22.3	23.7	16.7	10.9	---
12	---	7.8	16.5	22.5	23.6	16.4	11.0	---
13	---	8.0	16.5	23.0	23.8	16.1	11.5	---
14	---	8.6	17.5	22.8	24.0	15.7	11.9	---
15	---	9.6	17.8	22.4	23.6	15.3	12.0	ice on
16	---	10.0	18.0	21.7	23.0	15.3	11.6	---
17	---	9.8	19.2	21.3	23.1	15.2	10.9	---
18	---	10.0	18.7	21.0	23.2	15.0	10.5	---
19	---	10.0	M	21.3	23.3	15.4	9.9	---
20	---	10.1	M	22.5	23.0	15.3	9.4	---
21	---	10.6	M	22.3	22.5	15.0	9.1	---
22	--- C	11.0	M	22.5	21.7	14.3	9.0	---
23		11.3	M	22.4	21.5	13.9	8.5	---
24	5.0[A]	11.7	M	22.6	21.3	13.0	8.2	---
25	---	11.3	M	22.7	21.3	12.0	8.0	---
26	5.0	11.2	M	22.6	21.6	11.3	7.9	C
27	5.0	12.3	M	22.8	22.2	10.8	7.8	C
28	4.9	12.5	M	22.9	22.6	10.5	7.3	C
29	4.9	13.2	M	23.1	22.3	10.2	6.8	ice on
30	4.8	13.9	M	23.0	21.2	10.1	6.5	---
31		14.5		23.0	20.5		6.1	
MEAN	(4.9)	(10.0)	(16.9)	(22.1)	23.4	15.4	9.5	(4.5)

Ice off: Apr 24 Ice on: Nov 15/29 Total ice free days: 205

Notes:
1. All temperatures are mean daily values determined from a floating surface water temperature recorder unless indicated "A".
2. A indicates a manual thermometer reading.
3. --- indicates no data or not applicable.
4. ( ) indicate a mean value based on less than a full months record.
5. B ice off, C 40% ice cover
6. M missing data.
7. 60% of lake opened up Nov. 26-28.

Table 65. Rawson Lake surface temperature data in degrees celsius for 1985.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	6.6	14.5	16.8E	21.1	16.8	9.4	5.8
2	---	7.0	14.5	17.8E	21.1	16.2	9.2	5.8
3	---	7.6	14.6	18.9	21.1	16.0	9.6	5.5
4	---	8.2	14.5	19.1	21.0	15.9	9.3	5.3
5	---	9.2	14.6	19.8	20.8	16.0	9.1	5.0
6	---	9.5	14.1	21.0	20.9	16.5	9.0	5.0
7	---	10.0	14.1	23.0	20.8	16.4	8.8	4.9
8	---	11.0	14.5	22.0	21.0	16.1	8.0	4.5
9	---	11.5	14.1	21.0	21.0	15.8	7.6	---
10	---	12.0	14.0	20.2	20.2	15.5	7.1	---
11	---	12.1	14.0	19.6	20.1	16.0	7.1	---
12	---	12.5	14.3	21.0	19.5	15.6	7.0	---
13	---	12.5	16.2	21.0	18.5	15.1	7.0	---
14	---	13.0	17.0	20.5	17.3	15.0	7.0	---
15	---	12.5	17.0	19.7	17.3	15.0	6.5	---
16	---	11.9	16.4	19.6	17.5	14.5	6.5	---
17	---	12.1	15.7	21.4	17.2	15.0	6.2	---
18	---	12.2	15.5	21.0	17.0	15.5	6.0	D
19	---	12.1	15.8	21.0	16.3	14.2	6.1	---
20	---	11.9	16.4	21.0	16.4	13.5	6.1	---
21	--- A	12.0	17.1	20.2	16.5	13.0	6.1	F
22	B	13.2	16.0	20.0	16.5	12.8	6.4	---
23	C	15.0	15.0	19.2	16.2	12.5	6.7	---
24		15.5	15.4	19.5	16.5	11.5	6.5	---
25	4.0	15.1	15.0	19.9	17.5	11.0	6.5	---
26	4.1	15.4	14.6	19.8	17.5	10.7	6.5	---
27	4.2	15.5	14.3	19.6	17.2	10.5	6.3	---
28	4.8	16.0	14.0	19.3	17.7	10.2	6.1	---
29	5.5	16.0	14.6	20.0	17.5	10.0	6.1	---
30	5.9	15.2	15.8E	20.1	17.3	9.8	6.0	---
31		15.1		21.0	17.0		6.0	
MEAN	(4.8)	12.2	15.1	20.1	18.5	14.4	7.2	(5.2)

Ice off: Apr 24 Ice on: Nov. 21 Total ice free days: 211

Notes:
1. All temperatures are mean daily values determined from a floating surface water temperature recorder unless indicated "A".
2. E indicates estimated value.
3. --- indicates no data or not applicable.
4. ( ) indicate a mean value based on less than a full months record.
5. A - 70% ice cover.
6. B - 30% ice cover at 08:00 and 2% at 22:00.
7. C - ice free at 05:00.
8. D - 80% ice cover at 12:00.
9. F - ice on.

Table 66. Rawson Lake surface temperature data in degrees celsius for 1986.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	5.4	18.5	19.7	21.3	M	13.1	6.2
2	---	5.5	17.3	20.3	20.7	M	12.9	5.8
3	---	6.0	16.6	20.6	20.7	M	12.6	5.5
4	---	7.2	16.5	20.7	20.7	M	12.2	5.0
5	---	7.6	16.6	21.7	21.2	M	11.6	---
6	---	7.6	16.9	20.8	21.5	M	11.0	---
7	---	7.5	17.9	20.6	21.5	M	10.9	---
8	---	7.2	17.6	20.0	21.3	M	10.5	---
9	---	7.5	17.9	20.8	21.0	15.5	10.2	---
10	---	7.7	18.1	M	20.1	14.2	9.6	---
11	---	8.2	17.7	M	19.7	14.9	9.1	C
12	---	8.9	17.6	M	19.6	14.5	8.8	---
13	---	10.0	17.4	M	19.7	13.6	8.7	---
14	---	10.8	17.2	M	20.4	13.5	8.2	---
15	---	11.2	17.6	19.3[A]	20.4	13.1	8.0	---
16	---	11.8	16.9	M	20.4	13.0	7.9	---
17	---	11.3	17.0	M	20.3	12.6	7.8	---
18	---	11.4	18.6	M	20.2	12.7	7.8	---
19	---	12.5	20.2	M	20.1	12.6	7.9	---
20	---	12.9	19.6	M	M	12.7	8.2	---
21	---[B]	14.2	18.5	M	M	12.8	8.1	---
22	3.7	14.5	19.0	M	M	12.8	8.1	---
23	4.5	14.9	18.5	M	19.0	12.8	8.0	---
24	4.3	15.3	17.5	21.7	18.7	13.4	8.0	---
25	4.4	16.2	17.8	21.6	19.0	13.2	7.9	---
26	4.4	18.6	18.5	21.7	18.2	13.2	7.8	---
27	4.6	20.0	18.5	22.0	17.3	12.9	7.8	---
28	4.6	21.2	18.5	22.3	17.0	13.0	7.7	---
29	5.0	22.2	18.6	22.4	17.0	13.0	7.4	---
30	5.4	22.1	19.1	22.6	M	13.1	6.9	---
31		20.2		22.0	M		6.7	
MEAN	(4.6)	12.2	17.9	(21.2)	(19.9)	(13.3)	9.1	---

Ice off: Apr 22 Ice on: Nov. 11 Total ice free days: 204

Notes: 1. All temperatures are mean daily values determined from a floating surface water temperature recorder unless indicated "A".
2. A-indicates a single manual thermometer reading
3. B-lake was 25% ice covered at 11:30 cst and ice free by evening
4. C-complete ice cover by evening
5. --- indicates no data or not applicable
6. M-missing data
7. ( ) indicate a mean value based only on the record shown.

Table 67. Rawson Lake surface temperature data in degrees celsius for 1987.

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	---	8.6	18.2	19.5[A]	23.0	17.0[A]	14.1	6.0
2	---	9.1	18.8	M	23.0[A]	17.2	12.9	6.0[A]
3	---	9.9	17.3	M	23.0	17.0	12.6[E]	6.0
4	---	10.1	16.9	M	22.2	17.0	12.4	M
5	---	10.5	16.4	21.5[A]	22.0	17.1	M	M
6	---	10.7	16.4	23.0[A]	21.3	17.6	M	M
7	---	10.9	17.3	23.0[A]	21.5	17.6[A]	M	M
8	---	11.2	16.2[A]	22.5[A]	21.6	17.5	M	M
9	---	11.5	17.0[A]	M	21.6	17.5	M	M
10	---	11.8	M	22.5[A]	21.6	17.4	M	---
11	---	12.0	M	M	21.0	17.0	M	4.0[A]
12	---	12.1	M	M	21.0	16.8	M	---
13	---	12.2	M	M	20.7	16.7	M	---
14	---	12.3	M	19.5[A]	20.9	16.5	8.5[A]	---
15	B	12.5	M	M	21.3	16.8	8.0[A]	---
16	C	13.3	M	19.0[A]	21.3	16.8	M	---
17	D5.4[A]	13.0	22.5[A]	M	20.7[A]	16.8	M	---
18	5.7	12.9	M	M	20.2[A]	16.7	M	---
19	6.0	12.7	22.0[A]	M	20.0	16.5	7.5[A]	---
20	6.2	12.7	M	19.0[A]	20.0	16.3	M	---
21	6.5	12.6	M	19.5[A]	19.9	16.2[A]	M	F
22	6.5	11.5	M	19.0[A]	19.3	16.0[A]	7.0[A]	---
23	6.9	11.5	24.5[A]	20.5[A]	18.7	15.9	7.5	G
24	7.3	12.7	24.0[A]	20.5[A]	18.3	15.7	7.5	---
25	7.4	13.5	M	M	18.4	15.6	6.5	---
26	8.0	13.6	M	M	18.5	15.6	6.5	---
27	7.4	13.5	M	23.0[A]	18.9	15.6	6.5	---
28	7.7	14.6	M	24.0[A]	18.4	15.3	6.3	---
29	8.0	15.2	M	23.6	18.4	15.0	6.0	---
30	8.2	16.1	20.0[A]	24.0	18.1	14.5	6.0	---
31		17.2		23.3	17.5		6.0	
MEAN	(6.9)	12.3	(19.1)	(21.5)	20.4	16.5	(8.3)	---

Ice off: Apr 17 Ice on: Nov 21 Total ice free days: 218

Notes: 1. All temperatures are mean daily values determined from a floating surface water temperature recorder unless indicated "A".
2. A-indicates a single manual thermometer reading.
3. B-lake was 85% ice covered at 10:00 cst and 75% by 15:00 cst.
4. C-lake was 50% ice covered at 12:00 cst
5. D-lake was ice free at 12:00 cst.
6. E-recorder was hit by a boat at 16:00 cst
7. F-ice on night of Nov 20-21
8. --- indicates no data or not applicable.
9. M-missing data
10. ( ) indicate a mean value based only on the record shown.
11. G-small open water area morning of Nov 23.

APPENDIX 9

ICE-OFF AND ICE-ON RECORDS FOR RAWSON LAKE

The beginning and end of ice cover on Rawson Lake (239) have been observed since 1969. Table 68 summarizes that data for the 19 year period of record. The date of ice-off referred to here is the day on which no significant ice cover remains. The ice usually melts quickly within a day or two once the candled ice sheet breaks up. The date of ice-on is the day that the ice cover is 80% or greater. Usually the lake freezes over completely in one night. An exception occurred in 1984 when the lake initially froze over on November 15 but reopened and remained 60 to 80% ice free until November 29.

Rawson Lake is the only lake at ELA for which there are complete records of ice-on and ice-off dates. These records serve as an index of when other lakes may have iced over or opened up. It has been observed that lakes in the area having smaller surface area and less depth are usually a week to a few days in advance of Lake 239 in both respects. Similarly, larger lakes freeze over and break up anywhere from a few days to a few weeks later. Morphometry data for Rawson Lake are as follows:

Surface area:	54.28 ha
Volume:	591×10^4 m^3
Maximum depth:	30 m
Mean depth:	10.9 m

Table 68. Summary of ice-off and ice-on dates for Rawson Lake for the 19 year period 1969 to 1987.

Year	Ice-off		Ice-on		Ice Free Days
	Date	Day #	Date	Day #	
1969	Apr 27	117	Nov 16	320	203
1970	May 16	136	Nov 15	319	183
1971	May 1	121	Nov 10	315	194
1972	May 5	125	Nov 14	318	193
1973	May 1	121	Nov 18	322	201
1974	May 9	129	Nov 15	319	190
1975	May 7	127	Nov 23	327	200
1976	Apr 23	114	Nov 8	313	199
1977	Apr 27	117	Nov 22	326	209
1978	May 6	126	Nov 19	323	197
1979	May 13	133	Nov 11	315	182
1980	Apr 26	117	Nov 21	326	209
1981	Apr 20	111	Nov 20	324	213
1982	May 2	122	Nov 21	325	203
1983	May 5	125	Dec 1	335	210
1984	Apr 24	115	Nov 15	320	205
1985	Apr 24	114	Nov 21	325	211
1986	Apr 21	111	Nov 11	315	204
1987	Apr 17	107	Nov 21	325	218
Mean	Apr 30	120	Nov 18	322	201
Earliest	Apr 17 (1987)		Nov 8 (1976)		
Latest	May 16 (1970)		Dec 1 (1983)		

APPENDIX 10

HYDROMETRIC DATA

The hydrometric program

Since 1969, many experiments and research projects at ELA have relied on streamflow and lake level data. This section of report provides a summary of all existing hydrometric data at ELA for the years 1982 to 1987. This report is the third of a series. Beaty (1981) summarized hydrometric data for the 1969 to 1978 period and Beaty (1984) summarized 1979 to 1981 record. Both reports provided a discussion for each station and lake basin with important information useful for interpreting and working with the data. The section "The hydrometric stations" of this appendix provides an update to those discussions where relevant. Users of the data are advised to refer to the appropriate discussions in each of the three reports. This appendix also includes an historical summary of the streamflow records for the 1969 to 1987 period.

During the 6 year period reported, 26 hydrometric stations were operated in 14 lake basins. Table 69 provides a list of stations and years of record during the 1982 to 1987 period. Table 70 provides a complete list of all hydrometric stations operated during the 1969 to 1987 period of study and serves as an historical summary of record available. Figure 10 shows the location of each station listed in Tables 70 and 71. Table 71 provides longitude, latitude and morphometric data for all ELA lakes for which hydrometric data exist.

The ELA hydrometric program continued to be operated in cooperation with the Water Survey of Canada (WSC) through the 1982 to 1984 period as it was in 1969 through 1981. However, in 1985, the level of participation by WSC greatly changed. The WSC contribution had previously been in the form of advice, construction, service and determination of mean daily discharges and lake levels. On March 31, 1985, WSC withdrew support from the ELA program. Their contribution since that date has been the loan of 22 water level recorders in exchange for contributed record for inclusion in their hydrometric data inventory. Many of the discharge and lake level data reported here have been published in the WSC Surface Water (Ontario) data summaries. All available data have been reported here in order to provide a comprehensive summary for ELA researchers. Only April to October records have been recorded by WSC for most stations. Where winter records exist from other sources, they have been included in these tables.

The hydrometric data

The hydrometric data tables in this report provide discharge in cubic metres per second ($m^3 sec^{-1}$) for lake outflow and stream gauging stations and water level or stage in metres (m) for lake stations. A list of these data for the 1982 to 1987 period is provided at the end of this discussion p. 131) and is intended to serve as an index to these data. The following discussions were designed to make the data more meaningful to the user.

Surface water data: The lake level and discharge data in this report are surface water data. It is important to realize the difference between outflow and surface water data when working with streamflow records, particularly lake outflow data. The true or total outflow from a lake or flow between two lakes may have a significant groundwater seepage (subsurface flow) component that is not easily detectable in addition to that which is visible on the surface as open channel flow. (See Subsurface flow).

Construction: It is possible that factors such as disturbance due to construction, weir relocation, or choice of building materials may be thought responsible for local changes in chemistry or biology. With this in mind, the station discussions that follow provide information including dates of construction or major modification and also the type of materials used ie: concrete (sealed or unsealed), lumber containing preservatives, etc. Whether construction was conducted by Water Survey of Canada (WSC) or ELA hydrologic studies personnel has also been indicated. All construction, repairs or changes after October 1984 were carried out by ELA staff due to the withdrawal of WSC support.

Historical streamflow summary: To make this report more useful, the 1969 to 1987 period has been summarized into one table. Table 75 provides the monthly discharge volumes in cubic metres for each station and each month for which records exist. Most of the discharge stations show seven months of record and a total. It should be realized that the total shown is the total for the months shown and may not necessarily be the total annual outflow. (See Winter flow).

Subsurface flow: Subsurface flow or groundwater seepage may not exist for most ELA study lakes and is likely insignificant in others. Smooth continuous bedrock control at lake outlets is usually the case. However, the assumption that no groundwater flow exists should not be made without examination of the lake basin and hydrometric record. Lake 224, for example, has been identified as having a groundwater flow problem. Results show that approximately 12000 m^3 per year is likely

entering Lake 222 from Lake 224 (roughly 2% of the volume of Lake 222 per year or approximately 15% of the average reported Lake 224 surface outflow) as subsurface flow (Beaty 1984).

The Lake 239 watershed is the only ELA basin where detailed groundwater investigations have been carried out (Beaty 1981, Part III). Only surface water flow is included in this report. Where possible, a general assessment of each station with respect to the problem of potential groundwater seepage is included in the station discussions that follow.

Winter flow: In winter, all ELA lakes freeze over and accumulate a snow pack on the ice surface. As winter progresses, inflow from the terrestrial area surrounding the lake decreases to zero or near zero due to freezing temperatures and an accumulating snow cover that does not melt until April. Small hydrometric stations are difficult to service and impractical to operate in winter. For these reasons, most of the stations were operated from late March to early November for complete April to October (seven months) record. As in past years, there were four exceptions: Lake 239 outflow, Lake 239 lake level, Lake 470 outflow and Lake 240 outflow. The first three of these stations were heated using electrical power from the nearby field station. The Lake 240 outflow was equipped with a pressure gauge that did not require heat as the weir notch usually remained open and in a free flow state. These four stations were operated all year as they were the largest of the monitored drainage basins and usually flow all year.

In the case of the five small terrestrial stream basins, flow usually reached zero by the end of December and began again with the beginning of the spring snowmelt in late March. Several routine visits were made to each stream during the winter period to confirm the presence of flow and make measurements if necessary.

Examination of the 18 year record for the Lake 239 outflow showed that 19% of the total annual flow occurred in the November to March, five month winter period. Whole lake water budgets calculated for Lake 226 for the years 1973 to 1980 suggested the same average winter flow rate as for Lake 239 for the same period. Observations indicate that small winter flows often exist from ELA lakes. This flow is caused by a removal of lake water from storage, as well as the accumulation of the winter snow pack on the ice surface causing displacement of lake water beneath and forcing it out of the outflow. The stream channel, once it is iced over, develops an often deep insulating snow cover which allows streamflow to occur even at air temperatures of -30 C. If a lake outlet is beaver dam controlled, flow often occurs as seepage through or under the dam allowing flow to happen in winter (e.g. L.223, L.226). Since 1980, efforts have been made to obtain manual measurements of flow on a once monthly basis during the winter. These winter values, where they exist, are included in the data summary tables that follow and are intended to allow for estimation of winter flow.

Forest fires: During the 1982 to 1987 period of this report there were no new forest fires affecting ELA research basins. The total number of fires remained at four during the 1969 to 1987 period and were as follows:

1. 1974 - Lakes 239,240, and 230
2. 1978 - Lake 382
3. 1979 - Lake 226
4. 1980 - Lakes 240, 239, 470, 661, 303, and 304.

Details of these fires were reported in Beaty (1984).

Mapping and aerial photography: The most important data for hydrological studies are watershed and lake surface areas. These areas are usually derived from topographic maps and aerial photographs. Tables 73 and 74 provide a summary of existing mapping and aerial photography for the ELA.

The accuracy of area measurements is based on a number of factors including the quality and scale of the mapping, the scale of the photography, the experience of the individual and whether or not ground truthing or ground measurements were incorporated. All of these factors are responsible for any discrepancies which may exist between areas reported here and those previously published. Tables 71 and 72 provide drainage basin and lake surface areas which are currently in use. The lake surface areas presented are consistent with those of the bathymetric maps in use at ELA with the exception of Lakes 239 and 661 which are based on Western Photogrammetry (1970) mapping. The two Lake 239 values differ by 3% and no bathymetric map currently exists for Lake 661. The drainage basin areas provided were based on mapping by Western Photogrammetry (1970) or by Lockwood Survey (1972). The exceptions are for Lakes 230, 261, 265 and 382 which were based on aerial photographs (1976), Lake 114 inflow watershed and NE Subbasin which were based on new mapping by Airquest Resource Surveys (1987) and the Lake 302 upland watershed which was by closed traverse survey (1987).

Survey datum: Where long term or continuous lake level records are to be collected, it is necessary to refer local survey benchmarks to some selected datum. Since there was no geodetic survey benchmark close to ELA from which to refer elevations to mean sea level (MSL), the lake levels in the following data

tables were relative to an assumed datum. In most cases, individual lakes were not related to the same datum. The exception was for the Lake 240 drainage basin (includes 239, 470, 661, 303 and 304) in which all surveys were referenced to a master assumed benchmark at the Lake 240 outflow weir.

Lake ordering: Table 71 provides, in addition to basic morphometric parameters, a lake order number for each of the lakes having hydrometric record. The order number is simply the number of lakes above the outflow including its own lake. For example, Lake 223 is an order 3 having 3 lakes above its outflow while Lake 239 is an order 1 or headwater lake. It is intended as a simple number which may be useful in explaining, in part, quantitative or qualitative differences between a set of lakes.

Symbols: In the data tables, symbols used opposite or in place of daily stage or discharge values to which they apply were as follows:

A - manual gauge observation; indicates that one or more manual gauge readings were obtained and used in determining the value reported.
B - ice conditions; indicates the presence of ice at the station which has or may have affected the stage-discharge relationship.
C - flow exceeded station capacity; indicates that flow was in the overflow range and should be regarded as an estimate.
D - beaver dam in structure; indicates recorded flows which were found to be false due to the presence of a beaver dam and which are best estimates only.
E - estimated value; indicates a value which was determined by some indirect method such as interpolation, graph of observed readings, comparison with other stations or by considering meteorological data.
M - missing record; indicates a missing value which could not be reliably estimated.
--- no data or not applicable; indicates a day or usually a series of record for which a station was not in service.

The hydrometric stations

The purpose of this section is to provide updated information pertaining to ELA drainage basins and hydrometric stations. Beaty (1981) and Beaty (1984) provided discussions which were current to the end of 1978 and 1981 respectively. This section of report should be treated as supplementary data to those discussions and therefore users of historic or long term data sets from this report are encouraged to refer to the relevant station or basin discussion in all three reports. In the following discussion, the statement "No change" has been included to indicate that no significant station changes have been made since 1981.

Lake 114 watershed: Hydrometric changes within the watershed included the construction of a new concrete weir on the inflow stream in the fall of 1983. Hydrological instrumentation to the end of 1987 consisted of an outflow flume, a lake stage level recorder, an inflow weir, and a standard and recording rain gauge. Portions of the watershed have been previously logged and scarified (Beaty 1981 and Beaty 1984).

LAKE 114 OUTFLOW: No change. A 2 inch H-flume in concrete with a Leupold and Stevens A-35 water level recorder was constructed by WSC and operated from late March to early November each year since 1971 (seven month record). In winter, at least once monthly observations have been made since 1981 (see Winter flow). The concrete has never been sealed and occasionally patches and concrete repairs have been made. The lake drains through a poorly defined marshy outflow area and enters a small swampy pond before draining through a culvert in the road and directly into the measuring flume. The outflow is not bedrock controlled. The flume rests on boulders and gravel with the upstream roadway serving as a cutoff dike. Small amounts of seepage have appeared in the streambed downstream of the flume in recent years. This flow occurs through the gravel roadbed only at certain pond levels. Observed flow rates were usually less than 0.0001 and never more than 0.0002 m^3/sec and were considered insignificant.

LAKE 114 LAKE LEVEL: No change. A stilling well with a Leupold and Stevens A-35 water level recorder was installed by WSC and operated from the end of March to the beginning of November each year since 1981 (seven month record).

LAKE 114 INFLOW: Hydrometric work at this station began in July 1979 when a 90° V-notch sharp crested weir was installed by ELA personnel on a small intermittent stream entering the northeast corner of Lake 114. It was a temporary plywood weir with a steel knife edge and plastic lined earth fill dikes. A Leupold and Stevens type F weekly float water level recorder was used but only partial records were obtained during the 1979 to 1983 period. This was the smallest catchment monitored at ELA (3.64 ha) during the period reported and lies totally within the portion of the Lake 114 watershed that was logged in 1976 and scarified by the Ontario Ministry of Natural Resources (OMNR) in the early summer of 1979. In September, 1983 a new 120° V-notch sharp crested concrete weir with a Leupold and Stevens A-71 float water level recorder was constructed by ELA staff about 10 m downstream of the temporary (1979) weir as a replacement. It was operated from late March to early November each year since 1984 (seven month record). In winter, occasional visits were made (see Winter flow).

On June 30, 1987 the notch was changed to a 90° V. The weir is located about 133 m upstream from the lake. It was built on bedrock and therefore of groundwater seepage is unlikely. The concrete was not sealed and occasional minor concrete repairs were made. The basin above this weir is 5.73 ha in area and was the smallest catchment gauged at ELA. (see also Lake 302 watershed).

Lake 120 watershed: No change. Hydrological work on Lake 120 consisted of estimates of annual flow for 1970, 1971 and 1972 by P. Campbell (1976) and monitored flows in 1973 and 1974. This lake was not included as a "controlled" lake in the ELA agreement with the Province of Ontario.

LAKE 120 OUTFLOW: No change. On April 4, 1972 a temporary 60° V-notch sharp crested weir was installed by WSC. A Leupold and Stevens A-35 float water level recorder was operated from early April to the end of October each year (seven month record). Unfortunately, most of the 1972 record was missing. This station was discontinued at the end of the 1974 season.

Lake 223 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow weir, a lake stage level recorder, and inflow weir (Lake 224 outflow) and a standard rain gauge which was read weekly. The old beaver dam at the lake outflow was opened in 1986 to allow the lake levels to fluctuate naturally over a narrower range.

LAKE 223 OUTFLOW: No change. In August 1975, a 90° V-notch sharp crested concrete weir was constructed by WSC. The weir was located on bedrock about 50 m downstream of the lake outlet and beaver dam. A Leupold and Stevens A-35 float water level recorder provided continuous record from early April to the beginning of November each year (seven month record). In winter, once monthly observations have been made since 1982 (see Winter flow). The outflow is bedrock controlled and the possibility of subsurface seepage is unlikely. The concrete was not sealed at the time of construction. However, in 1987, sections of the concrete wall around the notch were repaired and this new concrete was sealed with a tar foundation coat.

LAKE 223 LAKE LEVEL: No change. In October 1980, a stilling well and Leupold and Stevens A-35 float water level recorder were installed on the lake by WSC. Continuous records were obtained from the end of March to the beginning of November each year since 1981 (seven month record).

Lake 224 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow and an inflow weir (Lake 225 outflow). A groundwater seepage problem identified in 1982 from Lake 224 into Lake 222 has been previously discussed (Beaty 1984).

LAKE 224 OUTFLOW: There was no change at this station until 1986. The original plywood and plastic lined 90° V-notch weir constructed by WSC in August 1975 was replaced June 18, 1986 with a concrete 90° V-notch weir. The new weir was located about 50 metres upstream of the old weir at a better site. The concrete was sealed with a tar foundation coat at the time of construction. The entire outflow stream and valley is less than ideal in terms of weir site suitability. Neither the old or new weir sites were bedrock controlled. The overburden along the stream valley consists of boulders and till such that a groundwater seepage problem would be difficult to detect and impossible to control. A Leupold and Stevens A-35 float water level recorder provided continuous record from late March to early November each year since 1975 (seven month record). In winter, monthly streamflow observations have been made since 1982 (see Winter flow).

Lake 225 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow weir.

LAKE 225 OUTFLOW: No change. A 60° V-notch concrete weir was constructed by WSC in August 1975. A Leupold and Stevens A-35 float water level recorder provided continuous record from late March to early November each year (seven month record). In winter, monthly streamflow observations have been made since 1982 (see Winter flow). The outflow is bedrock controlled and the possibility of subsurface seepage is unlikely. The concrete was sealed with a tar foundation coat at the time of construction.

Lake 226 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow weir. In 1979, a forest fire burned a portion of the watershed (see Forest fires). The presence of beaver affected lake levels and outflow record in 1982. In 1987, the lake level and streamflows were regulated to provide constant flow situations for an experiment on the stream between the weir and Roddy Lake (P. Walker).

LAKE 226 OUTFLOW: No change. A 90° V-notch sharp crested weir was constructed about 20 m below the beaver dam and lake outlet in 1971 by WSC. The weir consisted of a plywood and steel notch section with earth fill dikes and plastic lining. The weir was relined with plastic in 1982 and completely rebuilt in 1985 with similar materials. A Leupold and Stevens A-35 float water level recorder provided continuous record from late March to early November each year since 1972 (seven month record). In winter, monthly streamflow

observations have been made since 1982 (see Winter flow). Although the outflow area is not totally bedrock controlled, it appears that groundwater flow from this lake is unlikely.

Lake 227 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow weir and a lake stage level recorder and stilling well. The presence of beaver affected lake levels and outflow in 1985 and 1986.

LAKE 227 LAKE LEVEL: No change. Hydrological work began on Lake 227 May 17, 1969 when WSC installed a stilling well with a Leupold and Stevens float water level recorder on the lake. This station was operated from early April to the end of October (seven month record) in 1969, 1970 and from 1977 to 1987.

LAKE 227 OUTFLOW: There was no change at this station until 1985. The original plywood and plastic lined 90° V-notch weir constructed by WSC in October 1970 was replaced in 1985 with a new 90° V-notch concrete weir. This new weir was built at the same location by ELA personnel. The concrete was not sealed. A Leupold and Stevens float water level recorder provided continuous record from late March to early November each year (seven month record). In winter, monthly streamflow observations have been made since 1982 (see Winter flow).

Lake 230 watershed: No change. This watershed was totally burned by forest fire in 1974 (see Forest fires and Beaty 1984). Hydrological instrumentation consisted of an outflow weir.

LAKE 230 OUTFLOW: No change. A 60° V-notch weir constructed of plywood and steel by WSC was operated beginning in 1971. A Leupold and Stevens A-35 float water level recorder provided record from late March to the end of October each year (seven month record) until the station was discontinued following the 1980 season.

Lake 239 watershed: There was no change to the number or location of hydrometric stations in the Lake 239 (Rawson) watershed during the 1982 to 1987 period with the exception of the East Upper weir in the East Subbasin which was discontinued following the 1984 season. Considerable upgrading did occur and is discussed below. This watershed is the most complete in terms of hydrological instrumentation of all the ELA watersheds and serves as an index basin for much of the work there. Hydrological instrumentation consisted of an outflow flume, lake stage level recorder and stilling well, three inflow weirs, four rain gauge stations, a meteorological site, lake surface temperature recorder and groundwater wells. New mapping of the Northeast Subbasin in 1982 and 1987 resulted in a new reported drainage area. Table 71 provides current drainage areas and Table 72 provides areas for the three Rawson Lake subbasins. The watershed was burned by forest fires in 1974 and 1980 (see Forest fires). In addition to this report, all aspects of these data and occurrences have been summarized previously (Beaty 1981, 1984 and 1987).

LAKE 239 OUTFLOW: Rawson Lake (239) and Hayes Lake (240) are separated by a narrow strip of land 100 m long and 15 to 20 m in width. The lake flows out through a small short stream channel 15 m in length and 1.5 m in width. The surface elevation of Lake 239 is approximately 0.2 m higher than that of Lake 240.

Hydrometric work on Lake 239 began June 4, 1969 when WSC established a servo-manometer pressure gauge and Leupold and Stevens A-35 stage level recorder in the pumphouse building 150 m north of the outflow. This gauge served a dual function as a lake stage recorder for storage calculations and for stage level values in the stage-discharge relationship for the outflow stream. Initially there was no streamflow control structure. A section of open channel was rated and the first reported outflow record was for 1970. The streambed was mobile, comprised of sand and fine gravel. In June 1970, a plywood metering flume was installed by WSC. This proved to be only a slight improvement due to the shifting streambed, effect of wind, and the possibility of backwater from the downstream lake. On June 6, 1972, a 12 inch (30.5 cm) steel trapezoidal cutthroat Parshall flume was installed by ELA staff improving the quality of record as well as reducing the danger of backwater. On November 6, 1975, the pressure gauge and stage recorder were removed and a stilling well and Leupold and Stevens A-35 float stage level recorder were installed by WSC on the side of the helicopter landing pad at the outflow. As before, this single recorder provided stage level data for both lake storage and outflow discharge values. In winter, the stilling well was kept ice free with one 250 watt electric heat lamp. In 1976, a variable head loss situation was noticed between the water levels at the lake stage recorder and at the flume caused by sand deposition from wind and waves. To overcome this problem, a Leupold and Stevens A-71 float water level recorder and stilling well were installed July 12, 1976 on the outflow flume. In all years, continuous stage records were maintained (12 month record). Winter discharge records were further improved in 1976 by the use of a snow shelter with electric heat lamps in the stilling well and flume. No further changes occurred to the end of 1987.

LAKE 239 LAKE LEVEL: Lake level records began June 4, 1969 when WSC established a servo-manometer pressure gauge and Leupold and Stevens A-35 stage level recorder in the pumphouse building 150 m north of the outflow. On November 6, 1975, this was replaced with a stilling well and Leupold and Stevens A-35 float stage level recorder on the side of the helicopter landing pad at the outflow. The stilling well was kept ice free in winter with one 250 watt electric heat lamp and full year records were maintained. No further changes occurred to the end of 1987.

NORTHEAST INFLOW: Hydrometric work on this stream began in July 1971 when a bedrock controlled section of open channel was stabilized with a small metering section and staff gauge. A stage-discharge curve was developed for the section and in 1971, 1972 and 1973 mean daily discharges were calculated based on daily manual gauge readings. In 1974, a Leupold and Stevens type F weekly float recorder was placed on the stream to improve the quality and period of record. Only open water season flow data were collected. It was not until 1978 that the period of record was extended to include April spring runoff. In July 1979, this station was upgraded when the control section was replaced with a concrete flume. In 1983, the importance of this station increased when a new major project to study the effects of acidification on a wetland began. In 1983, an irrigation system was installed in the 3.67 ha wetland portion of the NE Subbasin to create artificial acidic precipitation events. Water was pumped from nearby Roddy Lake and sprayed onto the wetland on 9, 12, 13, 11 and 9 occasions respectively in each of the years 1983 to 1987. Mean daily flow values for this station are flagged with an "S" on days that the irrigation system was operated. Volumes of Roddy Lake water pumped into the Subbasin are available. This system was described in detail by Beaty (1987). New mapping in 1982 and 1987 resulted in a new reported drainage area (Table 72) for the NE Subbasin. On July 18, 1985, the concrete flume was replaced with a 120° V-notch concrete sharp crested weir at the same location. The concrete was not sealed in either structure. A Leupold and Stevens A-71 float water level recorder provided continuous record from late March to early November (seven month record). This weir greatly improved the quality of record, especially during the April spring snowmelt period. Normally this stream froze up by mid to late November and started to run by the last week of March or first week of April. In winter, monthly streamflow observations have been made since 1978 (see Winter flow). No further changes occurred at this station to the end of 1987.

NORTHWEST INFLOW: Hydrometric work on this stream began in 1969 but consisted only of a few discharge measurements that year. On June 24, 1970, WSC constructed a temporary 120° V-notch sharp-crested weir of plywood with plastic lining. The weir was located along a segment of stream channel over a silty sand and gravel substrate. A Leupold and Stevens A-35 float stage level recorder and stilling well provided continuous record from early to mid-April until the end of October each year (seven month record). By 1974, weir deterioration began to be a problem. On August 28, 1976 and after several major repair attempts, a new 120° V-notch sharp crested weir was constructed by WSC. This weir was located about 3 m downstream of the original weir. It incorporated slightly wider wing walls to each side with 2.5 m lengths of corrugated sheet metal which were driven vertically to provide a seepage cutoff wall. By the end of 1985, a combination of frost heave and damage by storm flows made replacement of this weir necessary. On August 26, 1986 construction of a third new weir was completed by ELA staff at the same location as the previous weir. The new structure was a plywood and steel 120° V-notch plate in a treated timber structure with extensive earth dikes to each side. A Leupold and Stevens A-71 float water level recorder provided continuous record from late March to early November (seven months). In winter, monthly streamflow observations have been made since 1978 (see Winter flow). No further changes occurred at this station to the end of 1987.

EAST INFLOW: This station may also be referred to as the East Lower Weir in some reports. It is located 75 m upstream of Rawson Lake. The stream channel is well defined for approximately 900 m of its length and flows most of the year, usually from early to mid April until the end of November or early December. The lower 550 m of stream is of very low slope (<1%) and meanders along the central part of a broad flat valley bottom. Where the station is located, the valley is 130 m wide and underlain with a sandy till substrate. Flow occasionally exceeds bank full stage during major rainstorm events making this stream a difficult monitoring situation.

Hydrometric work on this stream began on June 18, 1971. A small wooden box flume (1.22 m wide by 1.83 m) with staff gauge was installed to monitor storm runoff events during the open water season. A stage-discharge relationship was developed and the daily discharge reported for part of 1971 and for 1972 (Beaty 1981) were determined based on daily manual gauge readings due to a shortage of water level recorders. On May 10, 1973, a Stevens type F weekly water level recorder was added to this station to extend and improve the record. Following the forest fire in 1974, a new weir was constructed by ELA personnel and in operation August 2, 1974. This structure was a larger wooden box

flume (1.52 m wide by 2.44 m) incorporating a shallow V-notch at the front end for low flows. It was installed at a higher elevation to reduce the occurrence of backwater and was fitted with a staff gauge and Leupold and Stevens A-71 float water level recorder. Diking was also improved on each bank to contain high flows. While attempts have been made since 1975 to obtain April spring records, ice conditions have often caused complications resulting in incomplete records. This weir was operated usually from mid-April until early November. The station was further upgraded when it was replaced by WSC with a similar but larger structure on October 14, 1982. The new station was a steel box flume (1.83 m wide by 2.44 m) with a shallow steel V-notch at the front end having the same degree of angle as the previous structure. This weir was installed slightly higher than the 1974 weir to reduce the possibility of backwater. Diking was further improved to prevent flooding. A Leupold and Stevens A-35 float water level recorder provided continuous record from early to mid-April until early November (seven month record). In winter, monthly streamflow observations were made since 1977 (see Winter flow). No further changes occurred at this station to the end of 1987.

EAST UPPER WEIR: Hydrometric work at this station began August 22, 1973 when a temporary 90^{o} V-notch sharp crested weir was constructed by ELA personnel. The structure was simply a plywood and steel notch section with sand bag walls. Only about three months of record were obtained before a large storm washed out the walls in May 1974. In July 1974, the weir was rebuilt, also by ELA personnel, following the 1974 forest fire. The new structure was a 120^{o} V-notch sharp crested weir with concrete walls on bedrock. The concrete was never treated. A Leupold and Stevens A-71 water level recorder provided continuous record from early or mid April until the end of October each year 1975 until 1984 (seven month record). Due to the difficulty in accessing this station in winter, the normal monthly winter observations made at other stations were not carried out here. This station was discontinued following the 1984 field season.

Lake 240 watershed: The Hayes Lake (240) watershed includes the drainage of lakes 239, 470, 661, 303 and 304. Together, these 5 lakes account for 77% of the total Lake 240 drainage basin. During the 1982-1987 period reported, no changes occurred within the watershed except for those changes that are noted within the discussion of each lake. The drainage area reported is slightly different due to the new Northeast Subbasin area. In 1980, almost the entire Lake 240 watershed including all tributary drainage was burned by forest fire (see Forest fires).

LAKE 240 OUTFLOW: Hydrometric work on Lake 240 began March 27, 1969 when a concrete compound weir was constructed by WSC. The concrete wall incorporated a 120^{o} V-notch sharp crested weir in the head range 0 to 0.3048 m and a broad crested weir overflow for heads above 0.3048 m. This concrete has never been sealed. A Leupold and Stevens A-35 float recorder provided continuous record all year with the aid of a propane heater in winter until the end of 1975. At this time a servo-manometer pressure gauge system was installed to replace the float system. This eliminated the requirement to heat the recorder well in winter. The outflow area is bedrock controlled and the possibility of groundwater seepage is highly unlikely. Investigation of the outflow lower stream channel and surrounding area during a dry, no flow period revealed no wet or seepage areas into downstream Lake 979. No further changes occurred at this station to the end of 1987.

Lake 261 watershed: There were no hydrometric changes in the Lake 261 watershed during the 1982 to 1987 period reported. Hydrological instrumentation consisted of only the outflow weir during the 1971 to 1980 period.

LAKE 261 OUTFLOW: No change. On October 27, 1970 a 60^{o} V-notch sharp crested weir was constructed by WSC. A galvanized steel weir blade was installed on a plywood bulkhead and sand-cement bags were used to seal the weir. A Leupold and Stevens A-35 float stage level recorder provided continuous record from early April until the end of October each year from 1971 (seven month record). Winter observations were never made at this station. It was discontinued following the 1980 season.

Lake 265 watershed: There were no hydrometric changes in the Lake 265 watershed during the 1982 to 1987 period reported. Hydrological instrumentation consisted only of the outflow weir during the 1971 to 1980 period.

LAKE 265 OUTFLOW: No change. On October 29, 1970 a 2 inch steel H-flume, 2 foot deep abbreviated design was installed by WSC. A Leupold and Stevens A-35 float stage level recorder provided continuous record from early April until the end of October each year from 1971 (seven month record). Winter observations were never made at this station. It was discontinued following the 1980 season.

Lake 302 watershed: There were several hydrometric changes within the Lake 302 watershed during the 1982-1987 period reported. Hydrological instrumentation to the end of 1987 consisted of an outflow weir, a lake stage level recorder, an inflow weir and a standard and recording rain gauge. In addition to this basic network, three small (0.18-0.55 ha) upland catchments were chosen for a new project to be

carried out jointly by the Department of Fisheries and Oceans, Ontario Ministry of the Environment and York University (Toronto). Hydrometric monitoring of these catchments began in 1987. This data will be published independently of the ELA hydrological network described in this report. Results, catchment descriptions and future plans have been summarized in a preliminary report (Allan 1987).

LAKE 302 LAKE LEVEL: Hydrometric work began on Lake 302 when a staff gauge was installed August 13, 1980 and was read almost daily until October 29, 1980. In the late fall of 1980 a stilling well with a Leupold and Stevens A-71 float stage level recorder was installed by WSC and operated from the end of March to the beginning of November each year (seven month record).

LAKE 302 OUTFLOW: No change. Lake outflow records began August 13, 1980. In 1980, discharges were based on daily lake gauge readings and measured discharge in the natural outflow open stream channel. Discharges reported for 1981 were based on a relationship between recorded lake level and measured discharge in the same open channel section. On September 26, 1981, a 60° V-notch concrete sharp crested weir was completed by WSC. A Leupold and Stevens A-71 float water level recorder provided continuous record from late March to early November each year since 1982 (seven month record). In winter, monthly streamflow observations have been made since 1982 (see Winter flow). The outflow is bedrock controlled and the possibility of subsurface seepage is unlikely. The concrete was sealed with several coats of a tar foundation coat at the time of construction.

LAKE 302 UPLAND WEIR: This small 7.2 ha drainage basin was chosen in 1986 as a typical upland terrestrial watershed for hydrological and chemical monitoring. In August 1986, a concrete 90° sharp crested V-notch weir was constructed by ELA personnel. A Leupold and Stevens A-71 float water level recorder provided continuous record from August 19 in 1986 and late March to early November in 1987 (seven month record). In winter, monthly streamflow observations were made (see Winter flow). The weir was built on bedrock and there is no possibility of seepage. The concrete was sealed with a tar foundation coat at the time of construction. New contour mapping of this upland watershed was prepared under contract by Airquest Resource Surveys in 1987 at a scale of 1:1000 with 1 m contours. The drainage basin area was determined by a closed traverse survey around the watershed boundary. Permanent markers were established at 26 inflection points by drilling and flagging 1.6 cm holes in the bedrock.

Lake 303 watershed: No change. Hydrological instrumentation to the end of 1987 consisted of an outflow weir, a lake stage level recorder and a standard and recording rain gauge. In 1980, almost the entire Lake 303 watershed was burned by forest fire (see Forest fires).

LAKE 303 LAKE LEVEL: No change. A stilling well and Leupold and Stevens A-35 float water level recorder were installed by WSC July 8, 1969. The recorder was operated from the end of March to the beginning of November each year (seven month record).

LAKE 303 OUTFLOW: No change. A 120° V-notch sharp crested concrete weir was constructed April 30, 1970 by WSC. A Leupold and Stevens A-71 float water level recorder provided continuous record from late March to early November each year (seven month record). In winter, monthly streamflow observations have been made since 1981 (see Winter flow). The concrete in the weir has never been sealed. The outflow area is bedrock controlled and therefore seepage is unlikely.

Lake 304 watershed: Until the end of 1987, hydrological instrumentation consisted only of a lake stage level recorder. Only one minor change occurred during the period reported. On June 2, 1982, the beaver dam at the lake outflow was modified. A 0.5 m wide trench was cut down to bedrock to stabilize the lake outflow. The new zero flow sill elevation was found to be 53.510 m. There was no known beaver activity on the lake during the 1982 to 1987 period. In 1980, almost the entire Lake 304 watershed was burned by forest fire (see Forest fires).

LAKE 304 LAKE LEVEL: No change. A stilling well with a Leupold and Stevens A-35 float recorder was established by WSC on July 9, 1969. Since that time, the station has been operated from the end of March to the beginning of November each year (seven month record).

Lake 382 watershed: Hydrological work in the Lake 382 watershed began in 1986 with the construction of an outflow weir. A standard rain gauge was added in 1987 and read weekly during the open water season. A small forest fire burned 15 ha or 8% of the watershed in June 1978 (see Forest fires).

LAKE 382 OUTFLOW: In October, 1986, a concrete 120° V-notch sharp crested weir was constructed on bedrock at the lake outlet by ELA staff. A Leupold and Stevens A-71 float water level recorder provided a continuous record from late March to early November (seven month record). In winter, monthly streamflow observations were made (see Winter flow). In 1987, beaver caused problems by building their dams in the V-notch. Three beaver were accidently trapped in fish nets that year. The

days for which flow was believed to have been affected by the beaver damming have been coded "D". The concrete in the weir was sealed with a tar foundation coat at the time of construction. The outflow area is bedrock controlled and the occurrence of subsurface seepage appears to be unlikely.

Lake 470 watershed: The Lake 470 watershed includes the drainage of lakes 661, 303 and 304. Together, these three lakes account for 75% of the total Lake 470 drainage basin. Hydrological instrumentation to the end of 1987 consisted of an outflow weir and an inflow weir (the Lake 661 outflow, established in 1982). This watershed was totally burned by forest fire in 1980 (see Forest fires). Water leaves the lake through a trench cut down through an old beaver dam. There was no beaver activity on the lake during the 1982 to 1987 period.

LAKE 470 OUTFLOW: No change. A 90° V-notch weir was established on the outflow stream on April 11, 1969 by WSC. This was replaced with a 6 inch (15.2 cm) trapezoidal cutthroat flume (abbreviated section) in 1970. This control consisted of a concrete walled stilling pond, approach and stilling well fitted with a plate steel flume section. The concrete was not sealed. A wooden snow shelter with four 250 Watt electric heat lamps provided protection and heat for winter operation. A Leupold and Stevens A-35 float water level recorder has provided 12 month record since September 1969. The outflow area is bedrock controlled and the occurrence of groundwater seepage is unlikely.

Lake 661 watershed: The Lake 661 watershed includes also the drainage of lakes 303 and 304. These two lakes account for 64% of the total Lake 661 drainage basin. Hydrological instrumentation to the end of 1987 consisted of an outflow weir and an inflow weir (Lake 303 outflow). In 1980, this watershed was almost totally burned by forest fire (see Forest fires).

LAKE 661 OUTFLOW: A 90° V-notch concrete weir was constructed in the late fall of 1982 by WSC. The concrete was sealed with a tar foundation coat at the time of construction. The outflow area is bedrock controlled but, in the stream channel, this rock is very brittle and fractured at the surface and therefore a careful inspection for seepage must be made each year. A Leupold and Stevens A-71 float water level recorder provided continuous record from early April to the end of October each year since 1983 (seven month record). In winter, monthly streamflow observations were made (see Winter flow).

List of daily flow and water level data

Table/Figure	Year	Page
Lake 114 outflow	1982-1987	139
Lake 114 inflow	1984-1987	145
Lake 114 lake level	1982-1987	149
Lake 223 outflow	1982-1987	152
Lake 223 lake level	1982-1987	158
Lake 224 outflow	1982-1987	161
Lake 225 outflow	1982-1987	167
Lake 226 outflow	1982-1987	173
Lake 227 outflow	1982-1987	179
Lake 227 lake level	1982-1987	185
Lake 239 outflow	1982-1987	188
Lake 239 lake level	1982-1987	194
Northeast inflow to Lake 239	1982-1987	197
Northwest inflow to Lake 239	1982-1987	203
East inflow to lake 239	1982-1987	209
East upper weir	1982-1984	215
Lake 240 outflow	1982-1987	218
Lake 302 outflow	1982-1987	224
Lake 302 upland watershed	1986-1987	230
Lake 302 lake level	1982-1987	232
Lake 303 outflow	1982-1987	235
Lake 303 lake level	1982-1987	241
Lake 304 lake level	1982-1987	244
Lake 382 outflow	1987	247
Lake 470 outflow	1982-1987	248
Lake 661 outflow	1983-1987	254

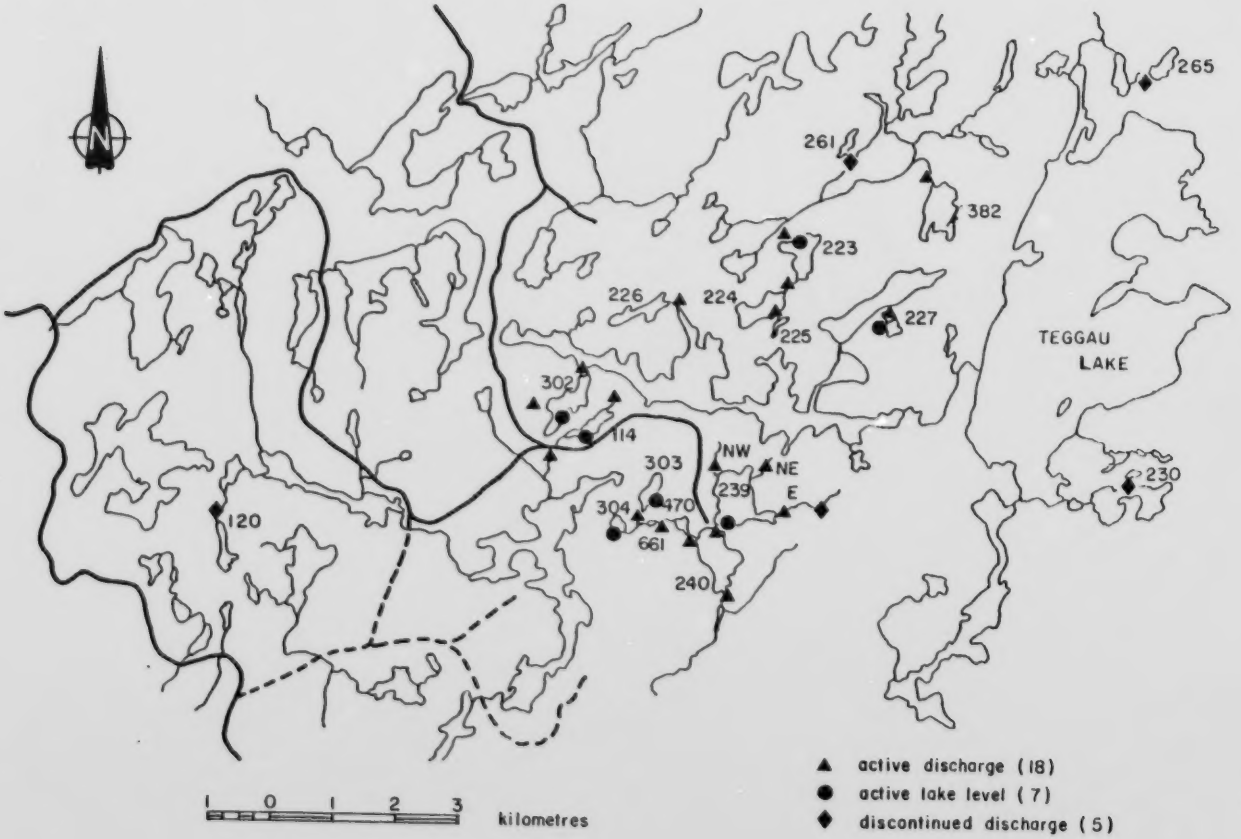


Fig. 10. Map showing the location of hydrometric stations in the Experimental Lakes Area with record during the 1969 to 1987 period.

Table 69. Hydrometric stations in operation in the Experimental Lakes Area during the 1982 to 1987 period.

	Station	1982	1983	1984	1985	1986	1987
1	Lake 114 outflow	Y	Y	Y	Y	Y	Y
2	Lake 114 lake level	Y	Y	Y	Y	Y	Y
3	Lake 114 inflow	P	N	P	Y	Y	Y
4	Lake 223 outflow	Y	Y	Y	Y	Y	Y
5	Lake 223 lake level	Y	Y	Y	Y	Y	Y
6	Lake 224 outflow	Y	Y	Y	Y	Y	Y
7	Lake 225 outflow	Y	Y	Y	Y	Y	Y
8	Lake 226 outflow	Y	Y	Y	Y	Y	Y
9	Lake 227 outflow	Y	Y	Y	Y	Y	Y
10	Lake 227 lake level	Y	Y	Y	Y	Y	Y
11	Lake 239 outflow	Y	Y	Y	Y	Y	Y
12	Lake 239 lake level	Y	Y	Y	Y	Y	Y
13	East inflow to lake 239	Y	Y	Y	Y	Y	Y
14	East upper weir	Y	Y	Y	N	N	N
15	Northwest inflow to Lake 239	Y	Y	Y	Y	Y	Y
16	Northeast inflow to Lake 239	Y	Y	Y	Y	Y	Y
17	Lake 240 outflow	Y	Y	Y	Y	Y	Y
18	Lake 302 outflow	Y	Y	Y	Y	Y	Y
19	Lake 302 lake level	Y	Y	Y	Y	Y	Y
20	Lake 302 upland watershed	N	N	N	N	P	Y
21	Lake 303 outflow	Y	Y	Y	Y	Y	Y
22	Lake 303 lake level	Y	Y	Y	Y	Y	Y
23	Lake 304 lake level	Y	Y	Y	Y	Y	Y
24	Lake 382 outflow	N	N	N	N	N	Y
25	Lake 470 outflow	Y	Y	Y	Y	Y	Y
26	Lake 661 outflow	N	Y	Y	Y	Y	Y

Note: The East upper weir was the only station discontinued in the 1982 to 1987 period. New stations started during this period were: Lake 114 inflow, Fall 1983; Lake 302 upland, Fall 1986; Lake 382 outflow, 1987; and Lake 661 outflow, 1983. Although some record was previously reported for Lake 114 inflow, the new concrete weir constructed in 1983 monitors a significantly larger drainage area.

Y - Station in operation.
N - Station not in operation.
P - Partial record only.

Table 70. Historical summary of all hydrometric stations operated in the Experimental Lakes Area in the 19-year period from 1969 to 1987.

Lake	Station name	Location Latitude (°N) deg/min/s	Longitude (°W) deg/min/s	Type	Installation	Record to 1987 Begins	Ends	Years (n)	Type/Months
114	Lake 114 outflow	49 40 10	93 45 45	Q	Contrete and steel H-flume	1971	-	17	S 7
	Lake 114 lake level	49 40 10	93 45 30	W	Staff gauge, non-recording station	1978	1980	3	S 6
	Lake 114 lake level	49 40 10	93 45 30	W	Stilling well and recorder	1981	-	7	S 7
	Lake 114 inflow	49 40 30	93 45 05	T	120° V-notch weir, concrete	1984	-	4	S 7
120	Lake 120 outflow	49 39 25	93 50 20	Q	60° V-notch weir, temporary	1973	1974	2	S 7
223	Lake 223 outflow	49 41 56	93 42 50	Q	90° V-notch weir, concrete	1975	-	13	S 7
	Lake 223 lake level	49 41 55	93 42 40	W	Stilling well and recorder	1981	-	7	S 7
224	Lake 224 outflow	49 41 33	93 42 40	Q	90° V-notch weir	1975	-	13	S 7
225	Lake 225 outflow	49 41 15	93 42 50	Q	60° V-notch weir	1975	-	13	S 7
226	Lake 226 outflow	49 41 20	93 44 15	Q	90° V-notch weir	1972	-	16	S 7
227	Lake 227 outflow	49 41 15	93 41 25	Q	90° V-notch weir	1970	-	18	S 7
	Lake 227 lake level	49 41 13	93 41 27	W	Stilling well and recorder	1969	-	19	S 7
230	Lake 230 outflow	49 40 05	93 38 00	Q	60° V-notch weir	1971	1980	11	S 7
239	Lake 239 outflow	49 39 28	93 43 36	Q	Gauging section, temporary	1970	1972	2	A 12
				Q	12 inch Parshall flume, plate steel	1972	-	16	A 12
	Lake 239 lake level	49 39 28	93 43 36	W	Servo-manometer pressure gauge	1969	1975	7	A 12
				W	Stilling well and recorder	1976	-	12	A 12
	Northwest inflow	49 39 57	93 43 40	T	120° V-notch weir	1970	-	18	S 7
	Northeast inflow	49 40 04	93 43 08	T	Gauging station, 120° V-notch weir from 1985	1971	-	17	S 7
	East inflow	49 39 37	93 42 48	T	Flume	1971	-	17	S 7
	East upper weir	49 39 40	93 41 46	T	120° V-notch weir, concrete	1973	1984	12	S 7
240	Lake 240 outflow	49 38 52	93 43 34	Q	120° V-notch weir, concrete	1969	-	19	A 12
261	Lake 261 outflow	49 42 40	93 41 55	Q	60° V-notch weir	1971	1980	11	S 7
265	Lake 265 outflow	49 43 30	93 37 55	Q	H-flume, 2 ft deep design	1971	1980	11	S 7
302	Lake 302 outflow	49 40 47	93 45 28	Q	Natural channel rated to lake level	1981	1982	1	S 7
				Q	60° V-notch weir, concrete	1982	-	6	S 7
	Lake 302 lake level	49 40 24	93 45 40	W	Stilling well and recorder	1981	-	7	S 7
	Lake 302 upland	49 40 22	93 46 00	T	90° V-notch weir, concrete	1987	-	1	S 7
303	Lake 303 outflow	49 39 35	93 44 38	Q	120° V-notch weir, concrete	1970	-	18	S 7
	Lake 303 lake level	49 39 40	93 44 30	W	Stilling well and recorder	1969	-	19	S 7
304	Lake 304 lake level	49 39 27	93 44 53	W	Stilling well and recorder	1969	-	19	S 7
382	Lake 382 outflow	49 42 30	93 40 47	Q	120° V-notch weir, concrete	1987	-	1	S 7
470	Lake 470 outflow	49 39 23	93 43 57	Q	90° V-notch weir in 1969	1969	1970	1	S 9
					6" trapezoidal cutthroat flume (abbreviated)	1970	-	18	A 12
661	Lake 661 outflow	49 39 30	93 44 23	Q	90° V-notch weir, concrete	1983	-	5	S 7

Notes: Q - lake outflow discharge station; recording weir, flume or gauging section.
W - lake level station; staff gauge, stilling well and recorder.
T - terrestrial stream discharge station; recording weir, flume or gauging section.
S - seasonal, usually 7 months (April-October).
A - all year, 12 month record.

Table 71. Location and morphometric data for ELA lakes with hydrometric record.

Lake	Latitude (°N) deg/min/s	Longitude (°W) deg/min/s	Drainage area (ha) A_w	A_d	A_t	A_s	Lake volume ($\times 10^3$ metres^3)	Lake mean depth (m)	Order	Lakes tributary to outflow
114	49 40 20	93 45 25	57.71	57.71	45.61	12.1	2.07	1.7	1	114
120	49 39 15	93 50 15	69.7	69.7	60.4	9.3	7.04	7.6	1	120
223	49 41 35	93 42 30	259.96	162.48	135.21	27.27	19.51	7.2	3	223, 224, 225
224	49 41 25	93 43 00	97.48	67.01	41.09	25.92	30.05	11.6	2	224, 225
225	49 41 20	93 42 50	30.47	30.47	26.48	3.99	0.63	1.6	1	225
226[a]	49 41 22	93 44 40	97.17	97.17	81.08	16.09	9.60	6.0	1	226
northeast basin				48.48	40.16	8.32	4.72	5.7		
southwest basin				48.69	40.92	7.77	4.88	6.3		
227	49 41 18	93 41 20	34.40	34.40	29.40	5.0	2.21	4.4	1	227
230	49 40 05	93 38 00	8.89	8.89	7.22	1.67	1.04	6.2	1	230
239[b]	49 39 43	93 43 25	393.34	393.34	339.06	54.28	59.10	10.9	1	239
240[b]	49 39 15	93 43 35	723.05	162.0	117.82	44.18	26.70	6.0	6	240,239,370,661,303,304
261	49 42 50	93 41 55	47.58	47.58	42.01	5.57	1.60	2.9	1	261
265	49 43 30	93 37 40	71.0	71.0	57.9	13.1	12.8	9.8	1	265
302[a]	49 40 30	93 45 40	102.51	102.51	78.81	23.7	12.86	5.4	1	302
north basin				48.20	35.40	12.8	7.32	5.7		
south basin				54.31	43.41	10.9	5.54	5.1		
303	49 39 50	93 44 30	54.14	54.14	44.21	9.93	1.50	1.5	1	303
304	49 39 35	93 44 55	26.42	26.42	22.80	3.62	1.15	3.2	1	304
382	49 42 20	93 40 40	203.27	203.27	166.41	36.86	21.28	5.8	1	382
470	49 39 35	93 44 05	167.71	42.27	38.03	4.24	0.33	0.8	4	470, 661, 303, 304
661	49 39 35	93 44 25	125.44	44.88	43.59	1.29	0.13 E	1.0 E	3	661, 303, 304

[a] - Lakes 226 and 302 are double basin lakes that were separated by a sea curtain for some years.

[b] - Basin areas for Lakes 239 and 240 were adjusted in November 1982 and March 1987 after re-mapping of the NE subbasin.

A_w - Total drainage area, including all lake surfaces and tributary lake watersheds, and their watersheds.

A_d - Total drainage area, including lake surface and excluding tributary lakes.

A_t - Total terrestrial area, excluding lake surface and tributary watersheds.

A_s - Lake surface area.

Order - Number of lakes above the outflow.

E - estimated.

Table 72. Drainage basin areas for 6 terrestrial watersheds in the Experimental Lakes Area.

Watershed	Drainage area (ha)	% of total terrestrial area
East subbasin (L.239)	170.28	50.2
East upper weir (L.239)	90.78[a]	26.8
Northwest subbasin (L.239)	56.38	16.6
Northeast subbasin (L.239)	12.43[b]	3.7
Lake 114 inflow	5.73	12.6
Lake 302 upland watershed	7.20	9.1

[a] The east upper weir was located within and occupied 53% of the East Subbasin. It was discontinued following the 1984 season.

[b] New area determined March 1987 using new mapping by Airquest Surveys (1987).

Table 73. Summary of planimetric and contour mapping of the Experimental Lakes Area.

Map	Mapping by	Scale	Year	Aerial photography	Contour interval	Lake basins included
Western Photogrammetry (1970)	Western Photogrammetry Ltd.	1 : 4800	1970	unknown	10 ft (3 m)	239, 240, 303, 304, 470, 661
ELA (1971)	Dept. of Fisheries and Forestry	1 : 80500	1971	1965	none	all
Lockwood (1972)	Lockwood Survey Corporation Ltd.	1 : 7920	1972	1969-70	10 ft (3 m)	114, 120[a], 220, 221, 222, 223, 224, 225, 226, 227, 239, 240, 260, 302, 303, 304, 305, 382[b], 470, 661, 979
NTS (1978)	National Topographic Surveys	1 : 50000	1978	1969-70	10 m	all
OMNR (1984)	Ontario Ministry of Natural Resources	1 : 20000	1984	1982	10 m	all
Airquest (1985)	Airquest Resource Surveys Ltd.	1 : 5000	1985	1982	2 m	93, 106, 109, 110, 111, 373, 375, 377, 378, 428, 442, 622, 623, 624, 626, 629, 658, 659
Airquest (1987)	Airquest Resource Surveys Ltd.	1 : 1000	1987	1982	1 m	limited, L.302 upland watershed, L.114 inflow watershed, and NE Subbasin

[a] Lake 120 is not an ELA controlled lake but some chemistry and hydrology data do exist.

[b] Lake 382 is only partially covered by the Lockwood series.

ELA controlled lakes not covered by 1:7920 scale mapping or better include: 261, 262, 265, 309, 310, 383, 385 and 421.

Table 74. Summary of available aerial photography for the Experimental Lakes Area.

Year of Photography	Date	Average Scale	Flight Altitude (m)	Camera focal length (mm)	Source	Role	Frame #	Type of Imagery/Remarks
1927	June	-	1524	210.160	NAP	FA 518	10-15,16-23	oblique, non-stereo, limited coverage
1928	June	-	1524	207.137	NAP	A 160	1-28	oblique, non-stereo, limited coverage
1928	June	-	1372	207.010	NAP	A 162	1-28	oblique, non-stereo, limited coverage
1928	June	-	1524	207.137	NAP	A 164	90-108	oblique, non-stereo, limited coverage
1928	June	-	1524	207.137	NAP	A 165	1-23	oblique, non-stereo, limited coverage
1949	Aug 25-Oct 12	1:15840	2414	152.400	OMNR	-	-	vertical, stereo, blanket coverage
1953	July	1:70000	10668	152.400	NAP	A13560 A13561 A13748	89-93 112-116 52-56	vertical, stereo, blanket coverage
1965	-	1:15840	2804	153.200	OMNR	-	-	vertical, stereo, blanket coverage
1969	-	1:50000	7498	152.400	NAP	A21200 A21200	68-74 47-52	vertical, stereo, blanket coverage
1970	-	1:60000	9144	152.400	NAP	A21506 A21506	8-13 80-86	vertical, stereo, blanket coverage
1976	Jun 22-Aug 7	1:15840	2760	152.723 152.460	OMNR	-	-	vertical, stereo, blanket coverage
1982	Jun 11-Sep 21	1:15840	2780	153.200	OMNR	-	-	vertical, stereo, blanket coverage
1988	Oct 8	1:5000	1212	152.033	ARS	AS88109	1-49	vertical, stereo, limited coverage

Notes: 1) All photography is in black and white only.

2) Average scale is an approximate working scale only. Users are advised to use ground measurements for determining actual photo scales for applications requiring precise information.

3) Flight altitudes given are above sea level.

4) Sources: NAP - National Air Photo Library, 615 Booth Street, Ottawa, Ontario, K1A 0E9.
OMNR - Ontario Ministry of Natural Resources, Administrative Services Branch, Whitney Block, Queen's Park, Toronto, Ontario, M7A 1W3
ARS - Airquest Resource Surveys Limited, 147 Hamelin Street, Winnipeg, Manitoba, R3T 3Z1.

5) The 1988 airphotos were flown under a Department of Fisheries and Oceans contract.

LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0020 E	----	----	0.0020 E	0.0085	0.0040	0.0001	0.0003	0.0000	0.0000	----	----	1
2	----	----	----	0.0020 E	0.0065	0.0048	0.0010	0.0003	0.0000	0.0002	----	----	2
3	----	----	----	0.0020 E	0.0058	0.0031	0.0231	0.0004	0.0000	0.0032	----	----	3
4	----	----	----	0.0020 E	0.0051	0.0022	0.0274	0.0001	0.0000	0.0053	----	----	4
5	----	----	----	0.0020 E	0.0058	0.0017	0.0279	0.0001	0.0000	0.0033	----	----	5
6	----	----	----	0.0020 A	0.0048	0.0017	0.0271	0.0001	0.0000	0.0028	----	----	6
7	----	----	----	0.0020 E	0.0038	0.0023	0.0212	0.0001	0.0000	0.0103	----	----	7
8	----	0.0011 A	----	0.0020 E	0.0038	0.0020	0.0155	0.0000	0.0000	0.0138	----	----	8
9	----	----	----	0.0020 E	0.0035	0.0035	0.0123	0.0001	0.0000	0.0128	----	----	9
10	----	----	----	0.0020 E	0.0031	0.0069	0.0100	0.0000	0.0000	0.0181	----	----	10
11	----	----	0.0010 A	0.0030 E	0.0032	0.0069	0.0080	0.0000	0.0000	0.0224	----	----	11
12	----	----	----	0.0030 A	0.0032	0.0060	0.0066	0.0000	0.0000	0.0217	----	----	12
13	0.0014 A	----	----	0.0029	0.0030	0.0052	0.0060	0.0000	0.0000	0.0189	----	----	13
14	----	----	----	0.0039	0.0030	0.0050	0.0049	0.0000	0.0000	0.0157	----	0.0010 A	14
15	----	----	----	0.0117	0.0036	0.0042	0.0041	0.0000	0.0000	0.0133	----	----	15
16	----	----	----	0.0787	0.0038	0.0038	0.0037	0.0000	0.0000	0.0109	----	----	16
17	----	----	----	0.0502	0.0050	0.0034	0.0064	0.0000	0.0000	0.0097	----	----	17
18	----	----	----	0.0573	0.0105	0.0028	0.0046	0.0000	0.0000	0.0087	----	----	18
19	----	----	----	0.0424	0.0143	0.0022	0.0037	0.0000	0.0000	0.0079	----	----	19
20	----	----	----	0.0319	0.0140	0.0020	0.0031	0.0000	0.0000	0.0064	----	----	20
21	----	----	----	0.0266	0.0119	0.0019	0.0026	0.0000	0.0000	0.0050	----	----	21
22	----	----	----	0.0242	0.0097	0.0015	0.0020	0.0000	0.0000	0.0049	----	----	22
23	----	----	----	0.0246	0.0078	0.0012	0.0015	0.0000	0.0000	0.0026	----	----	23
24	----	----	----	0.0243	0.0061	0.0008	0.0034	0.0000	0.0000	0.0070	----	----	24
25	----	----	----	0.0227	0.0049	0.0006	0.0023	0.0000	0.0000	0.0037	----	----	25
26	----	----	----	0.0195	0.0041	0.0004	0.0018	0.0000	0.0000	0.0031	----	----	26
27	----	----	----	0.0162	0.0033	0.0002	0.0014	0.0000	0.0000	0.0029	----	----	27
28	----	----	----	0.0137	0.0029	0.0001	0.0012	0.0000	0.0000	0.0016	----	----	28
29	----		----	0.0115	0.0025	0.0001	0.0010	0.0000	0.0000	0.0016	----	----	29
30	----		----	0.0098	0.0021	0.0001	0.0008	0.0000	0.0000	0.0025	----	----	30
31	----		----		0.0031		0.0005	0.0000		0.0022		0.0000 E	31
TOTAL	----	----	----	0.5381	0.1727	0.0806	0.2352	0.0015	0.0000	0.2425	----	----	TOTAL
MEAN	----	----	----	0.0179	0.0056	0.0027	0.0076	.0000	0.0000	0.0078	----	----	MEAN
MAX	----	----	----	0.0902	0.0143	0.0069	0.0279	0.0004	0.0000	0.0224	----	----	MAX
MIN	----	----	----	0.0020	0.0021	0.0001	0.0001	0.0000	0.0000	0.0000	----	----	MIN

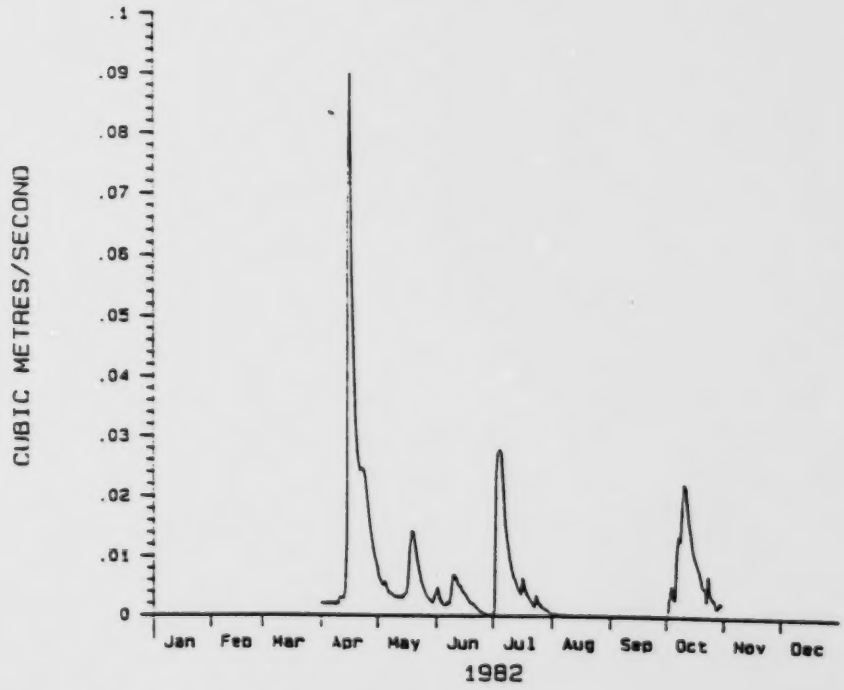
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	46492	14921	6964	20321	130	0	20952	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	109780	CUBIC METRES
MEAN DISCHARGE.	0.0060	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0902	CUBIC METRES/SEC ON APR 17
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON AUG 8
MAX INSTANTANEOUS FLOW.	0.1090	CUBIC METRES/SEC ON APR 17

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0020 E	0.0093	0.0005	0.0008	0.0000	0.0000	0.0000			
2	----	----	----	0.0020 E	0.0084	0.0003	0.0006	0.0000	0.0000	0.0000	----	----	1
3	----	----	----	0.0020 E	0.0072	0.0003	0.0008	0.0000	0.0000	0.0000	----	----	2
4	----	----	----	0.0030 E	0.0059	0.0003	0.0040	0.0000	0.0000	0.0000	----	----	3
5	----	----	----	0.0030 E	0.0051	0.0004	0.0054	0.0000	0.0000	0.0000	----	----	4
6	----	----	----	0.0040 A	0.0046	0.0004	0.0047	0.0000	0.0000	0.0000	----	----	5
7	----	----	----	0.0041	0.0041	0.0003	0.0036	0.0000	0.0000	0.0000	----	----	6
8	----	----	----	0.0050	0.0031	0.0002	0.0033	0.0000	0.0000	0.0000	----	----	7
9	----	----	----	0.0065	0.0027	0.0001	0.0025	0.0000	0.0000	0.0000	----	----	8
10	----	----	----	0.0087	0.0024	0.0001	0.0018	0.0000	0.0000	0.0000	----	----	9
11	0.0000 A	----	----	0.0115	0.0024	0.0001	0.0011	0.0000	0.0000	0.0000	----	----	10
12	----	----	----	0.0143	0.0029	0.0002	0.0006	0.0000	0.0000	0.0000	----	----	11
13	----	----	----	0.0171	0.0056	0.0001	0.0003	0.0000	0.0000	0.0000	----	----	12
14	----	0.0030 A	0.0030	0.0169	0.0049	0.0018	0.0002	0.0000	0.0000	0.0000	----	0.0000 A	13
15	----	----	----	0.0148	0.0048	0.0115	0.0001	0.0000	0.0000	0.0000	----	----	14
16	----	----	----	0.0128	0.0039	0.0242	0.0001	0.0000	0.0000	0.0000	----	----	15
17	----	----	----	0.0117	0.0034	0.0198	0.0001	0.0000	0.0000	0.0000	----	----	16
18	----	----	----	0.0111	0.0032	0.0141	0.0000	0.0000	0.0000	0.0000	----	----	17
19	----	----	----	0.0112	0.0029	0.0106	0.0000	0.0000	0.0000	0.0000	----	----	18
20	----	----	----	0.0119	0.0023	0.0077	0.0000	0.0000	0.0000	0.0000	----	----	19
21	----	----	----	0.0137	0.0018	0.0063	0.0000	0.0000	0.0000	0.0000	----	----	20
22	----	----	----	0.0158	0.0021	0.0058	0.0000	0.0000	0.0000	0.0000	----	----	21
23	----	----	----	0.0159	0.0021	0.0057	0.0000	0.0000	0.0000	0.0000	----	----	22
24	----	----	----	0.0151	0.0018	0.0049	0.0000	0.0000	0.0000	0.0000	----	----	23
25	----	----	----	0.0147	0.0014	0.0038	0.0000	0.0000	0.0000	0.0000	----	----	24
26	----	----	----	0.0139	0.0011	0.0030	0.0000	0.0000	0.0000	0.0000	----	----	25
27	----	----	0.0004 A	0.0133	0.0008	0.0020	0.0000	0.0000	0.0000	0.0000	----	----	26
28	----	----	----	0.0124	0.0007	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	27
29	----		----	0.0118	0.0007	0.0010	0.0000	0.0000	0.0000	0.0000	----	----	28
30	----		----	0.0103	0.0007	0.0008	0.0000	0.0000	0.0000	0.0000	----	----	29
31	----		----		0.0005		0.0000	0.0000		0.0000	----	----	30
TOTAL	----	----	----	0.3105	0.1028	0.1278	0.0300	0.0000	0.0000	0.0000		0.0000 E	31
MEAN	----	----	----	0.0104	0.0033	0.0043	0.0010	0.0000	0.0000	0.0000	----	----	TOTAL
MAX	----	----	----	0.0171	0.0093	0.0242	0.0054	0.0000	0.0000	0.0000	----	----	MEAN
MIN	----	----	----	0.0020	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	MAX
											----	----	MIN

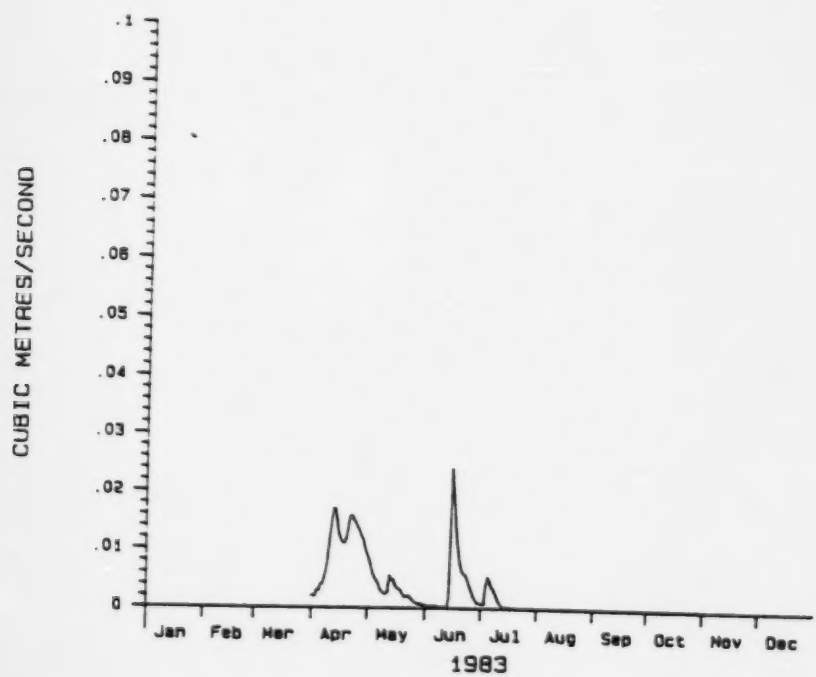
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	26827	8882	11042	2592	0	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	49343	CUBIC METRES		
MEAN DISCHARGE,	0.0027	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.0242	CUBIC METRES/SEC ON	JUN 16	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	JUN 1	
MAX INSTANTANEOUS FLOW,	0.0259	CUBIC METRES/SEC ON	JUN 16	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0002	0.0007	0.0000	0.0003	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0003	0.0003	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0002	0.0002	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0008	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0042	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0050 A	----	5
6	----	----	0.0000 A	0.0154	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	6
7	----	0.0000 A	----	0.0189	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0190	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0190	0.0007	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0189	0.0008	0.0009	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0165	0.0013	0.0011	0.0000	0.0000	0.0000	0.0000	----	0.0020 A	11
12	----	----	----	0.0168	0.0019	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0146	0.0015	0.0033	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0129	0.0010	0.0043	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0105	0.0006	0.0035	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0089	0.0005	0.0029	0.0000	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0071	0.0004	0.0028	0.0000	0.0000	0.0000	0.0000	----	----	17
18	----	----	----	0.0054	0.0003	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0042	0.0001	0.0023	0.0000	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0031	0.0001	0.0019	0.0000	0.0000	0.0000	0.0002	----	----	20
21	----	----	----	0.0025	0.0001	0.0013	0.0000	0.0000	0.0000	0.0060	----	----	21
22	----	----	----	0.0021	0.0001	0.0013	0.0000	0.0000	0.0000	0.0120	----	----	22
23	----	----	----	0.0014	0.0001	0.0011	0.0000	0.0000	0.0000	0.0120	----	----	23
24	----	----	----	0.0012	0.0001	0.0007	0.0000	0.0000	0.0000	0.0100	----	----	24
25	----	----	----	0.0009	0.0000	0.0004	0.0000	0.0000	0.0000	0.0090	----	----	25
26	----	----	----	0.0008	0.0001	0.0006	0.0000	0.0000	0.0000	0.0070	----	----	26
27	----	----	----	0.0005	0.0001	0.0013	0.0000	0.0000	0.0000	0.0060	----	----	27
28	----	----	0.0000 A	0.0010	0.0001	0.0010	0.0000	0.0000	0.0000	0.0060	----	----	28
29	----		----	0.0013	0.0000	0.0007	0.0000	0.0000	0.0000	0.0050	0.0070 A	----	29
30	----		----	0.0010	0.0000	0.0005	0.0000	0.0000	0.0000	0.0040 E	----	----	30
31	----		----		0.0000		0.0000	0.0000		0.0040 E		0.0010 E	31
TOTAL	----	----	----	0.2095	0.0119	0.0358	0.0009	0.0000	0.0000	0.0812	----	----	TOTAL
MEAN	----	----	----	0.0070	0.0004	0.0012	.0000	0.0000	0.0000	0.0026	----	----	MEAN
MAX	----	----	----	0.0190	0.0019	0.0043	0.0003	0.0000	0.0000	0.0120	----	----	MAX
MIN	----	----	----	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

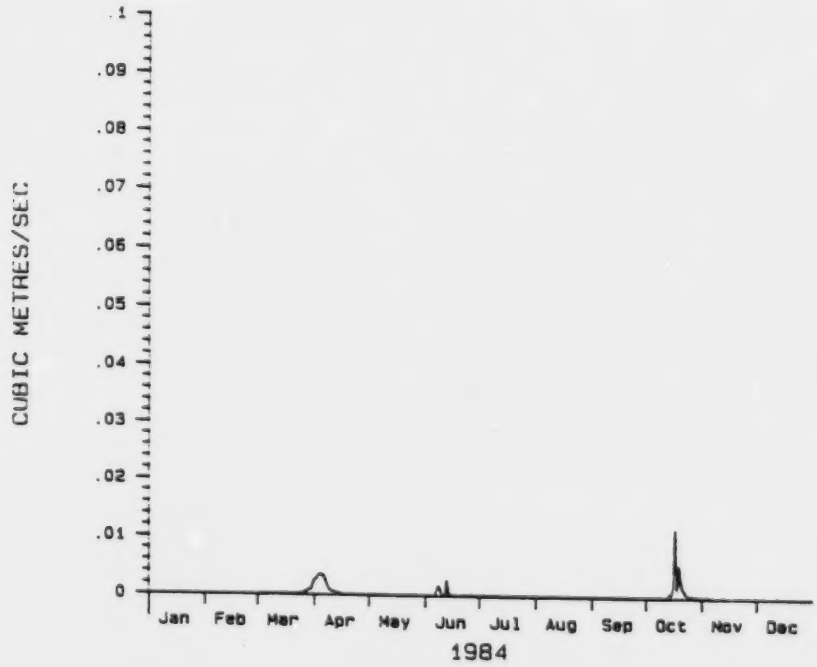
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	18101	1028	3093	78	0	0	7016	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	29316	CUBIC METRES
MEAN DISCHARGE,	0.0016	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0190	CUBIC METRES/SEC ON APR 8
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 25
MAX INSTANTANEOUS FLOW,	0.0196	CUBIC METRES/SEC ON APR 9

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	0.0000 A	0.0206	0.0024	0.0138	0.0000	0.0028	0.0066	—	—	1
2	—	—	—	0.0000	0.0170	0.0014	0.0111	0.0000	0.0023	0.0056	—	—	2
3	—	—	—	0.0000	0.0148	0.0013	0.0092	0.0000	0.0040	0.0054	—	—	3
4	—	—	—	0.0000	0.0164	0.0011	0.0075	0.0000	0.0038	0.0048	—	—	4
5	—	—	—	0.0000	0.0168	0.0008	0.0067	0.0000	0.0042	0.0044	0.0010 A	—	5
6	—	—	—	0.0000	0.0196	0.0006	0.0054	0.0000	0.0034	0.0044	—	—	6
7	—	—	—	0.0000	0.0216	0.0005	0.0042	0.0000	0.0026	0.0040	—	—	7
8	—	—	—	0.0000	0.0169	0.0005	0.0030	0.0000	0.0021	0.0077	—	—	8
9	—	—	—	0.0000	0.0166	0.0005	0.0023	0.0000	0.0011	0.0081	—	0.0020 A	9
10	—	—	—	0.0000	0.0144	0.0004	0.0011	0.0000	0.0017	0.0073	—	—	10
11	—	—	—	0.0000	0.0172	0.0004	0.0007	0.0000	0.0010	0.0068	—	—	11
12	—	—	—	0.0000	0.0248	0.0023	0.0006	0.0000	0.0006	0.0077	—	—	12
13	—	—	—	0.0107	0.0758	0.0018	0.0006	0.0000	0.0005	0.0101	—	—	13
14	—	—	—	0.0126	0.0325	0.0006	0.0005	0.0000	0.0003	0.0113	—	—	14
15	—	—	—	0.0140	0.0310	0.0005	0.0003	0.0000	0.0004	0.0111	—	—	15
16	—	—	—	0.0144	0.0400	0.0012	0.0002	0.0000	0.0003	0.0104	—	—	16
17	—	—	—	0.0140	0.0342	0.0024	0.0001	0.0056	0.0005	0.0099	—	—	17
18	—	—	—	0.0134	0.0274	0.0023	0.0002	0.0140	0.0001	0.0088	—	—	18
19	—	0.0000 A	—	0.0132	0.0216	0.0014	0.0005	0.0155	0.0167	0.0083	—	—	19
20	—	—	0.0000 A	0.0126	0.0179	0.0011	0.0005	0.0132	0.0322	0.0071	—	—	20
21	—	—	—	0.0233	0.0146	0.0013	0.0003	0.0089	0.0285	0.0060	—	—	21
22	0.0000 A	—	—	0.0710	0.0121	0.0115	0.0002	0.0096	0.0234	0.0052	—	—	22
23	—	—	—	0.0658	0.0099	0.0138	0.0003	0.0102	0.0191	0.0036	—	—	23
24	—	—	—	0.0621	0.0034	0.0128	0.0008	0.0094	0.0172	0.0045	—	—	24
25	—	—	—	0.0526	0.0032	0.0121	0.0006	0.0067	0.0146	0.0040	—	—	25
26	—	—	—	0.0459	0.0035	0.0121	0.0002	0.0056	0.0119	0.0030	—	—	26
27	—	—	—	0.0379	0.0029	0.0132	0.0000	0.0050	0.0099	0.0027	—	—	27
28	—	—	—	0.0322	0.0022	0.0170	0.0000	0.0014	0.0080	0.0027	0.0040 A	—	28
29	—		—	0.0282	0.0021	0.0172	0.0000	0.0047	0.0085	0.0021	—	—	29
30	—		—	0.0245	0.0029	0.0157	0.0000	0.0251	0.0073	0.0020 E	—	—	30
31	—		—		0.0026		0.0000	0.0033		0.0020 E		0.0010 E	31
TOTAL	—	—	—	0.5484	0.5185	0.1502	0.0709	0.1382	0.2288	0.1876	—	—	TOTAL
MEAN	—	—	—	0.0183	0.0167	0.0050	0.0023	0.0045	0.0076	0.0061	—	—	MEAN
MAX	—	—	—	0.0710	0.0400	0.0172	0.0138	0.0251	0.0322	0.0113	—	—	MAX
MIN	—	—	—	0.0000	0.0021	0.0004	0.0000	0.0000	0.0001	0.0020	—	—	MIN

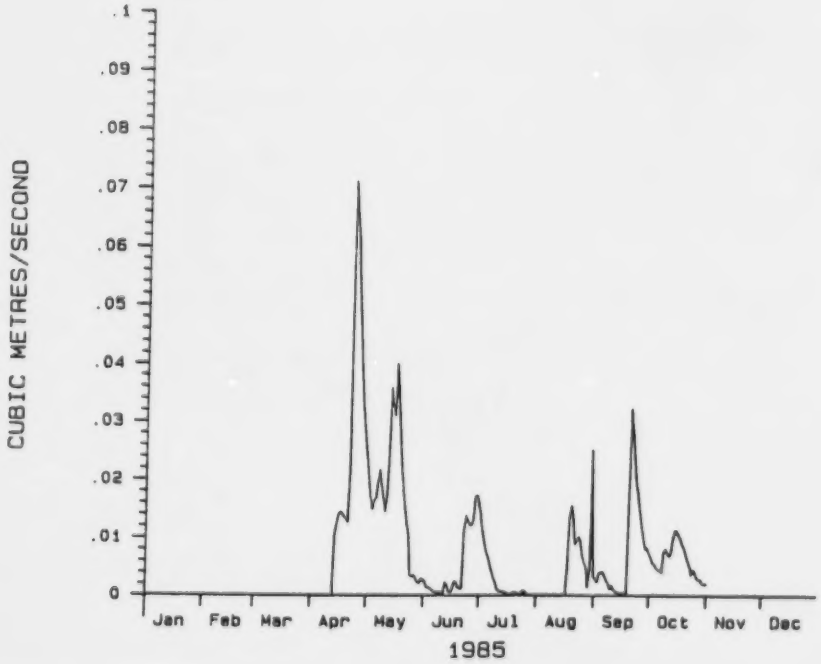
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	47382	44798	12977	6126	11940	19768	16209	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	159201	CUBIC METRES
MEAN DISCHARGE,	0.0086	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0710	CUBIC METRES/SEC ON APR 22
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON APR 01
MAX INSTANTANEOUS FLOW,	0.0754	CUBIC METRES/SEC ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0010 E	----	----	0.0194	0.0392	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	1
2	----	----	----	0.0219	0.0328	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0209	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0221	0.0175	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0004 A	0.0217	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0209	0.0225	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0206	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0197	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0180	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	----	0.0000 A	9
10	----	----	----	0.0156	0.0093	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0135	0.0088	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0119	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0105	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0089	0.0122	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0067	0.0097	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0059	0.0054	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0054	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	17
18	----	0.0000 A	----	0.0047	0.0036	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0081	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0114	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	20
21	0.0000 A	----	----	0.0114	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0104	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0092	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	----	0.0080	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	----	0.0072	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003 A	----	25
26	----	----	0.0000 A	0.0124	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0000	0.0344	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0000	0.0452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0018	0.0379	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0123		0.0000		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.4801	0.2975	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0160	0.0096	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0452	0.0392	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0047	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

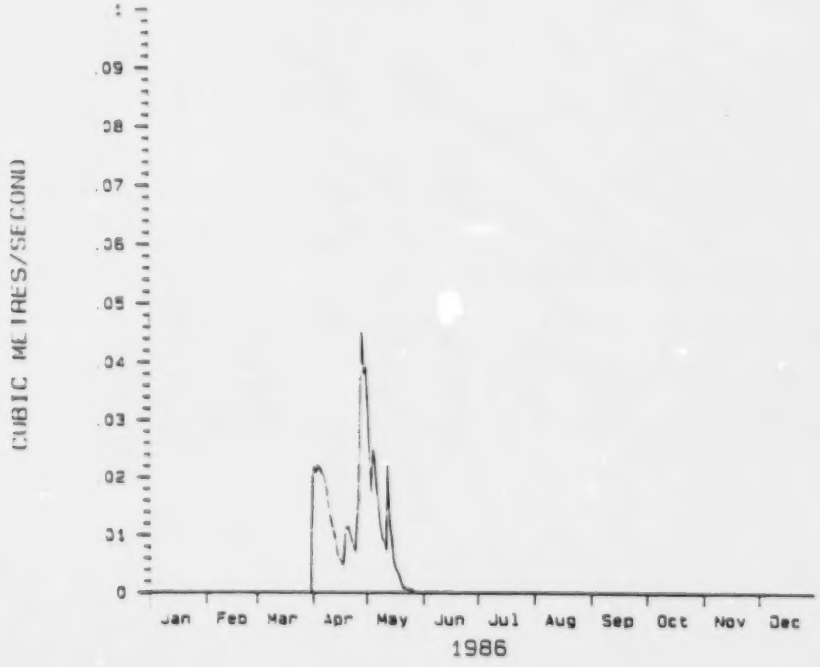
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	41481	25704	0	0	0	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	67185	CUBIC METRES
MEAN DISCHARGE,	0.0036	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0452	CUBIC METRES/SEC ON APR 29
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 27
MAX INSTANTANEOUS FLOW,	0.0892	CUBIC METRES/SEC ON MAY 13

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0100	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	1
2	----	----	0.0000 E	0.0083	0.0000	0.0014	0.0000	0.0000	0.0000	0.0000	----	----	2
3	----	----	0.0000 E	0.0070	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0000 E	0.0061	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0057	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0057	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0070	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0083	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0093	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0000 E	0.0099	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0088	0.0000	0.0024	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	0.0000 E	0.0077	0.0000	0.0032	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0065	0.0000	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0056	0.0000	0.0016	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0045	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	0.0000 A	0.0000 E	0.0057	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	0.0000 A	16
17	----	----	0.0000 E	0.0018	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	17
18	----	----	0.0000 E	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	0.0000 E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	19
20	0.0000 A	----	0.0000 E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	20
21	----	----	0.0000 E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	0.0085 E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	0.0169 E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0254 A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	0.0265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0254	0.0000	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0232	0.0000	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0194	0.0051	0.0026	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0169	0.0011	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0140	0.0001	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0121		0.0005		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.1903	0.1246	0.0112	0.0141	0.0000	0.0000	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0061	0.0042	0.0004	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0265	0.0100	0.0031	0.0032	0.0000	0.0000	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

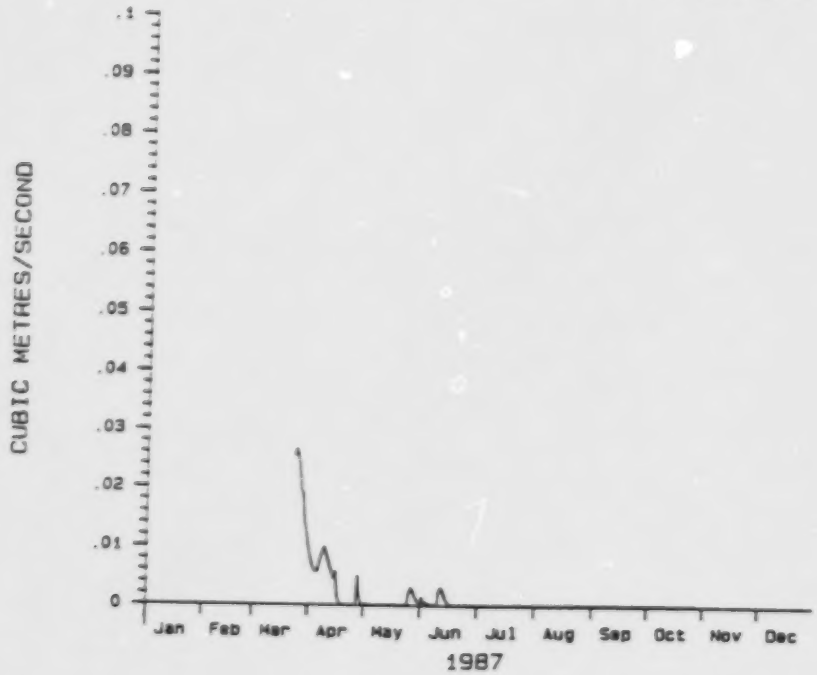
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	16442	10765	968	1218	0	0	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	29393	CUBIC METRES
MEAN DISCHARGE,	0.0014	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0265	CUBIC METRES/SEC ON MAR 25
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON APR 19
MAX INSTANTANEOUS FLOW,	0.0291	CUBIC METRES/SEC ON APR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 INFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0026	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0000 E	0.0028	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	0.0000 E	0.0034	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	3
4	----	----	0.0000 E	0.0035	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	4
5	----	----	0.0000 E	0.0033	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	5
6	----	----	0.0000 E	0.0031	---- M	0.0000 A	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0029	---- M	0.0007	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0015	---- M	0.0017	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0009	---- M	0.0013	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0000 E	0.0006	---- M	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0005 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	0.0000 E	0.0004 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0003 E	---- M	0.0026	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0002 E	---- M	0.0002	0.0000	0.0000	0.0000	0.0007	----	----	14
15	----	----	0.0000 E	0.0001 E	---- M	0.0001 E	0.0000	0.0000	0.0000	0.0007	----	----	15
16	----	----	0.0000 E	0.0000 E	---- M	0.0001 E	0.0000	0.0000	0.0000	0.0020	----	----	16
17	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0119	----	----	17
18	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0015	----	----	18
19	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0055	----	----	19
20	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0028	----	----	20
21	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0015	----	----	21
22	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0011	----	----	22
23	----	----	0.0000 E	0.0000 E	---- M	0.0000	0.0000	0.0000	0.0000	0.0005	----	----	23
24	----	----	0.0001 E	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0003	----	----	24
25	----	----	0.0002 E	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0002	----	----	25
26	----	----	0.0004 E	---- M	---- M	0.0002	0.0000	0.0000	0.0000	0.0002	----	----	26
27	----	----	0.0006 E	---- M	---- M	0.0002	0.0000	0.0000	0.0000	0.0001	----	----	27
28	----	----	0.0008	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0002	----	----	28
29	----		0.0009	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	29
30	----		0.0011	---- M	---- M	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0020		---- M		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.0061	----	----	0.0073	0.0000	0.0000	0.0000	0.0293	----	----	TOTAL
MEAN	----	----	0.0002	----	----	0.0003	0.0000	0.0000	0.0000	0.0009	----	----	MEAN
MAX	----	----	0.0020	----	----	0.0026	0.0000	0.0000	0.0000	0.0119	----	----	MAX
MIN	----	----	0.0000	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

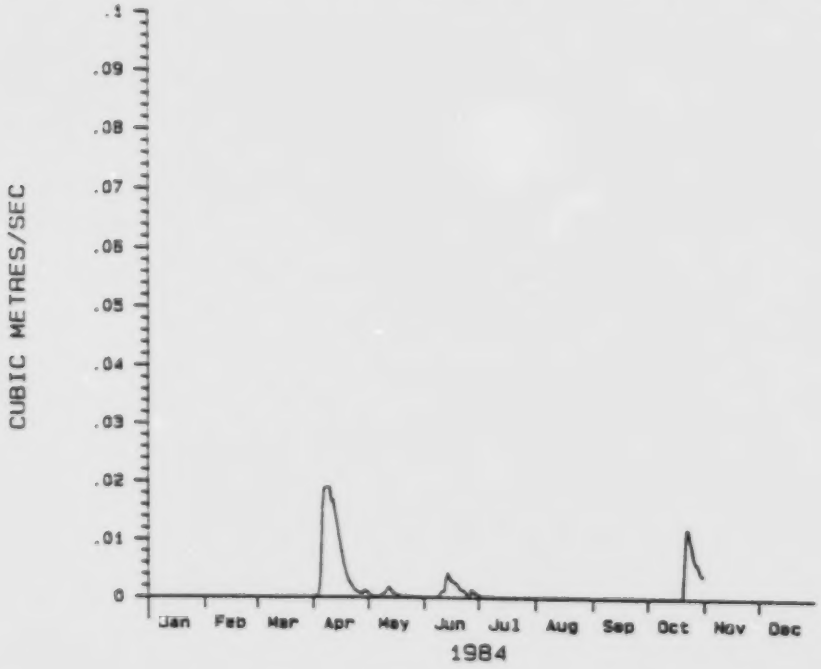
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	527	----	----	631	0	0	0	2532	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	M	CUBIC METRES	
MEAN DISCHARGE,	M	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0119	CUBIC METRES/SEC	ON OCT 17
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUN 11
MAX INSTANTANEOUS FLOW,	0.0348	CUBIC METRES/SEC	ON OCT 17

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114 INFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	—	1
2	—	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	—	2
3	—	—	—	0.0074	0.0000	0.0000	0.0000	0.0000	0.0002	0.0010	0.0000	—	3
4	—	—	—	0.0032	0.0008	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000	—	4
5	—	—	—	0.0031	0.0008	0.0000	0.0000	0.0000	0.0002	0.0000	0.0000	—	5
6	—	—	—	0.0023	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	6
7	—	—	—	0.0022	0.0010	0.0000	0.0000	0.0000	0.0000	0.0001	—	—	7
8	—	—	—	0.0022	0.0001	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	8
9	—	—	—	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	—	—	9
10	—	—	—	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	—	—	10
11	—	—	—	0.0019	0.0025	0.0000	0.0000	0.0000	0.0000	0.0019	—	—	11
12	—	—	—	0.0019	0.0041	0.0000	0.0000	0.0000	0.0000	0.0056	—	—	12
13	—	—	—	0.0016	0.0025	0.0000	0.0000	0.0004	0.0000	0.0020	—	—	13
14	—	—	—	0.0010	0.0004	0.0000	0.0000	0.0006	0.0000	0.0009	—	—	14
15	—	—	—	0.0009	0.0056	0.0000	0.0000	0.0002	0.0000	0.0006	—	—	15
16	—	—	—	0.0004	0.0032	0.0001	0.0000	0.0000	0.0000	0.0004	—	—	16
17	—	—	—	0.0002	0.0004	0.0002	0.0000	0.0099	0.0000	0.0004	—	—	17
18	—	—	—	0.0001	0.0001	0.0004	0.0000	0.0018	0.0000	0.0003	—	—	18
19	—	0.0000 A	—	0.0001	0.0001	0.0000	0.0000	0.0011	0.0100	0.0002	—	—	19
20	—	—	0.0000 A	0.0001	0.0000	0.0000	0.0000	0.0001	0.0021	0.0002	—	—	20
21	—	—	—	0.0105	0.0000	0.0001	0.0000	0.0000	0.0006	0.0002	—	—	21
22	0.0000 A	—	—	0.0042	0.0000	0.0067	0.0000	0.0004	0.0002	0.0001	—	—	22
23	—	—	—	0.0052	0.0000	0.0009	0.0000	0.0008	0.0001	0.0001	—	—	23
24	—	—	—	0.0022	0.0000	0.0001	0.0002	0.0002	0.0003	0.0001	—	—	24
25	—	—	—	0.0019	0.0000	0.0005	0.0000	0.0000	0.0001	0.0001	—	—	25
26	—	—	—	0.0013	0.0000	0.0008	0.0000	0.0000	0.0001	0.0001	—	—	26
27	—	—	—	0.0008	0.0000	0.0015	0.0000	0.0000	0.0001	0.0000	—	—	27
28	—	—	—	0.0002	0.0000	0.0029	0.0000	0.0000	0.0001	0.0000	—	—	28
29	—	—	—	0.0000	0.0000	0.0010	0.0000	0.0000	0.0001	0.0000	—	—	29
30	—	—	—	0.0000	0.0001	0.0002	0.0000	0.0000	0.0001	0.0000	—	—	30
31	—	—	—		0.0000		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	—	—	—	0.0547	0.0209	0.0152	0.0002	0.0145	0.0147	0.0144	—	—	TOTAL
MEAN	—	—	—	0.0020	0.0007	0.0005	.0000	0.0005	0.0005	0.0005	—	—	MEAN
MAX	—	—	—	0.0105	0.0041	0.0067	0.0002	0.0099	0.0100	0.0056	—	—	MAX
MIN	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

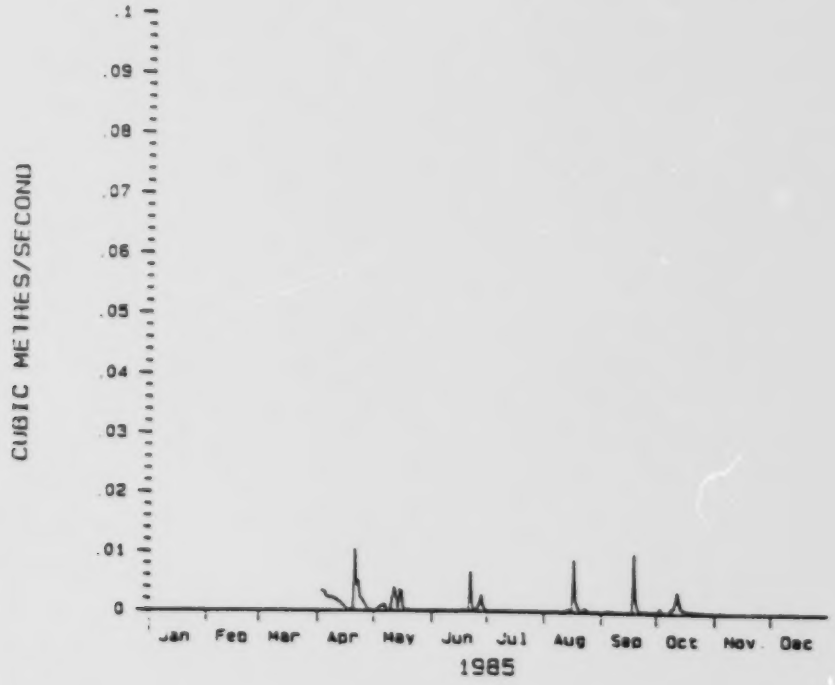
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	4726	1806	1313	17	1253	1270	1244	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	11629	CUBIC METRES
MEAN DISCHARGE.	0.0007	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0105	CUBIC METRES/SEC ON AUG 17
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON APR 29
MAX INSTANTANEOUS FLOW.	0.1175	CUBIC METRES/SEC ON APR 21

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 114 INFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0042	0.0038	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	1
2	—	—	—	0.0022	0.0010	0.0000	0.0000	0.0000	0.0001	0.0005	—	—	2
3	—	—	—	0.0017	0.0005	0.0000	0.0000	0.0000	0.0048	0.0002	—	—	3
4	—	—	—	0.0014	0.0002	0.0000	0.0000	0.0000	0.0007	0.0000	—	—	4
5	—	—	0.0000 A	0.0013	0.0040	0.0000	0.0009	0.0000	0.0001	0.0000	—	—	5
6	—	—	—	0.0009	0.0013	0.0000	0.0002	0.0000	0.0000	0.0000	—	—	6
7	—	—	—	0.0008	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	7
8	—	—	—	0.0006	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	8
9	—	—	—	0.0005	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	0.0000 A	9
10	—	—	—	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	10
11	—	—	—	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	11
12	—	—	—	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	12
13	—	—	—	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	13
14	—	—	—	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	14
15	—	—	—	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	15
16	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	16
17	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	17
18	—	0.0000 A	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000 E	—	—	18
19	—	—	—	0.0021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	19
20	—	—	—	0.0025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	20
21	0.0000 A	—	—	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	21
22	—	—	—	0.0003	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000 E	—	—	22
23	—	—	—	0.0002	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000 E	—	—	23
24	—	—	—	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	24
25	—	—	0.0001 A	0.0002	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000 E	—	—	25
26	—	—	0.0002 A	0.0039	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000 E	0.0001 A	—	26
27	—	—	0.0005	0.0047	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000 E	—	—	27
28	—	—	0.0029	0.0093	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000 E	—	—	28
29	—		0.0075	0.0025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	29
30	—		0.0054	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 E	—	—	30
31	—		0.0077		0.0000		0.0000	0.0000		0.0000 E		0.0000 E	31
TOTAL	—	—	—	0.0424	0.0129	0.0000	0.0011	0.0000	0.0066	0.0005	—	—	TOTAL
MEAN	—	—	—	0.0014	0.0004	0.0000	.0000	0.0000	0.0002	.0000	—	—	MEAN
MAX	—	—	—	0.0093	0.0040	0.0000	0.0009	0.0000	0.0048	0.0005	—	—	MAX
MIN	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

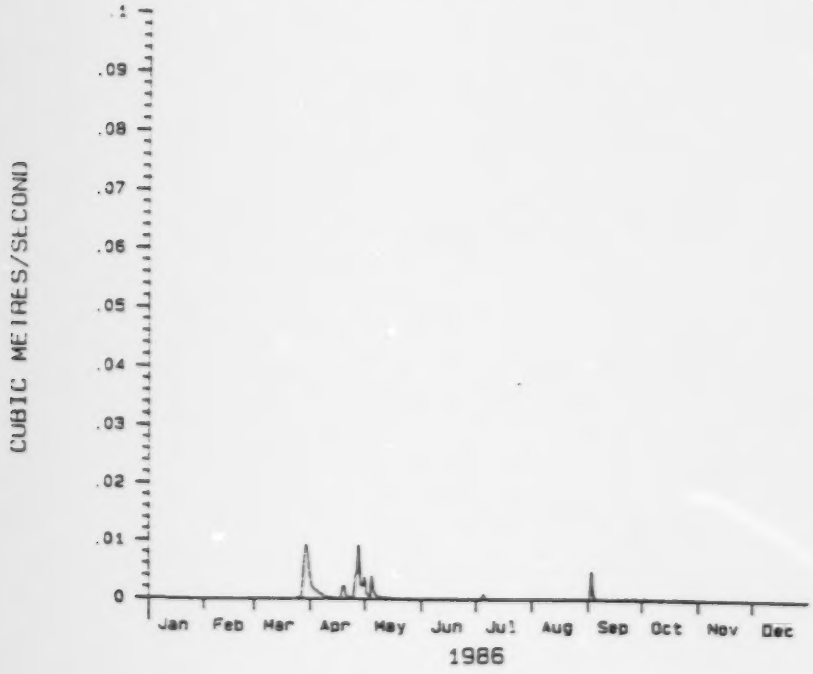
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	3663	1115	0	95	0	570	43	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	5486	CUBIC METRES	
MEAN DISCHARGE,	0.0005	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0093	CUBIC METRES/SEC	ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON APR 16
MAX INSTANTANEOUS FLOW,	0.0216	CUBIC METRES/SEC	ON APR 27

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 114 INFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	3
4	----	----	----	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	4
5	----	----	----	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0000	0.0000	0.0019	0.0000	0.0018	0.0000	0.0000	----	----	11
12	----	----	----	0.0000	0.0000	0.0004	0.0000	0.0010	0.0000	0.0000	----	----	12
13	----	----	----	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	----	----	13
14	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0010	0.0000	0.0000	----	----	15
16	----	0.0000 A	----	0.0000	0.0000	0.0000	0.0000	0.0019	0.0000	0.0000	----	0.0000 A	16
17	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000	----	----	17
18	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	----	----	18
19	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	19
20	0.0000 A	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	20
21	----	----	----	0.0000	0.0034	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0000	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0038 A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	24
25	----	----	0.0025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0016	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0014	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0007	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0000		0.0000		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.0031	0.0070	0.0024	0.0000	0.0062	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0001	0.0002	0.0001	0.0000	0.0002	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0009	0.0034	0.0019	0.0000	0.0019	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

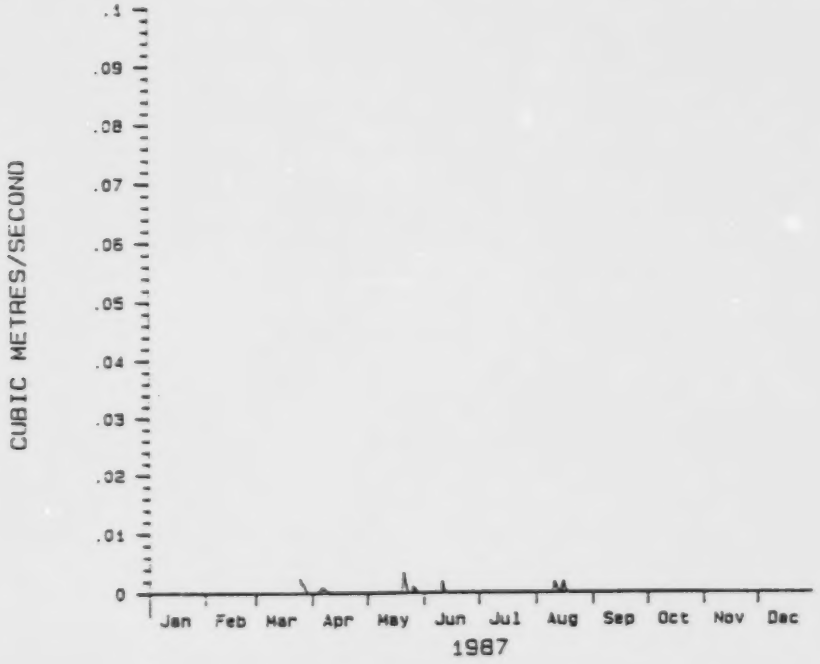
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	268	605	207	0	536	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	1616	CUBIC METRES	
MEAN DISCHARGE.	0.0001	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.0038	CUBIC METRES/SEC ON MAR 24	
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON MAR 30	
MAX INSTANTANEOUS FLOW.	0.0084	CUBIC METRES/SEC ON MAY 21	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1992

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	26.610 E	26.611	26.592	26.524	26.553	26.512	26.543	—	—	1
2	—	—	—	26.614 E	26.605	26.591	26.538	26.554	26.511	26.557	—	—	2
3	—	—	—	26.618 E	26.609	26.586	26.670	26.556	26.511	26.565	—	—	3
4	—	—	—	26.620 E	26.601	26.582	26.682	26.554	26.508	26.569	—	—	4
5	—	—	—	26.622 E	26.603	26.576	26.660	26.550	26.505	26.569	—	—	5
6	—	—	—	26.624 A	26.600	26.576	26.675	26.548	26.505	26.569	—	—	6
7	—	—	—	26.624 E	26.592	26.584	26.659	26.542	26.500	26.619	—	—	7
8	—	—	—	26.623 E	26.588	26.581	26.643	26.540	26.498	26.629	—	—	8
9	—	—	—	26.625 E	26.586	26.587	26.635	26.537	26.500	26.624	—	—	9
10	—	—	—	26.623 E	26.584	26.607	26.624	26.535	26.499	26.639	—	—	10
11	—	—	—	26.623 E	26.584	26.609	26.615	26.528	26.498	26.653	—	—	11
12	—	—	—	26.623 E	26.585	26.602	26.610	26.526	26.498	26.649	—	—	12
13	—	—	—	26.622 E	26.578	26.600	26.605	26.529	26.502	26.640	—	—	13
14	—	—	—	26.622 A	26.578	26.599	26.599	26.527	26.497	26.632	—	—	14
15	—	—	—	26.665	26.582	26.593	26.596	26.524	26.494	26.621	—	—	15
16	—	—	—	26.778	26.586	26.587	26.593	26.522	26.492	26.612	—	—	16
17	—	—	—	26.766	26.596	26.584	26.606	26.518	26.491	26.609	—	—	17
18	—	—	—	26.727	26.622	26.578	26.601	26.518	26.488	26.605	—	—	18
19	—	—	—	26.705	26.637	26.573	26.595	26.518	26.488	26.599	—	—	19
20	—	—	—	26.690	26.633	26.573	26.592	26.514	26.488	26.595 A	—	—	20
21	—	—	—	26.673	26.627	26.571	26.588	26.515	26.486	26.591 E	—	—	21
22	—	—	—	26.662	26.619	26.567	26.581	26.515	26.485	26.587 E	—	—	22
23	—	—	—	26.659	26.613	26.565	26.576	26.515	26.490	26.584 E	—	—	23
24	—	—	—	26.659	26.608	26.562	26.590	26.511	26.495	26.580 E	—	—	24
25	—	—	—	26.653	26.598	26.556	26.588	26.510	26.494	26.576 E	—	—	25
26	—	—	—	26.644	26.595	26.551	26.585	26.506	26.493	26.573 E	—	—	26
27	—	—	—	26.636	26.591	26.545	26.577	26.502	26.495	26.570 E	—	—	27
28	—	—	—	26.629	26.585	26.539	26.570	26.498	26.528	26.567 E	—	—	28
29	—	—	—	26.623	26.580	26.533	26.568	26.500	26.544	26.564 E	—	—	29
30	—	—	—	26.617	26.577	26.527	26.566	26.497	26.542	26.562 E	—	—	30
31	—		—		26.587		26.561	26.498		26.561 E		—	31
MEAN	—	—	—	26.650	26.598	26.576	26.603	26.524	26.501	26.594	—	—	MEAN
MAX	—	—	—	26.778	26.637	26.609	26.682	26.556	26.544	26.653	—	—	MAX
MIN	—	—	—	26.610	26.577	26.527	26.524	26.497	26.485	26.543	—	—	MIN

NOTES

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WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.778 METRES ON APR 16
MINIMUM DAILY WATER LEVEL, 26.485 METRES ON SEP 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.790 METRES AT 2146 ON APR 16

LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1993

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	26.520 E	26.565	26.521	26.523	26.466	26.394	26.387	26.389	—	1
2	—	—	—	26.521 E	26.561	26.523	26.520	26.462	26.391	26.389	26.389 A	—	2
3	—	—	—	26.522 E	26.560	26.529	26.530	26.459	26.395	26.388	—	—	3
4	—	—	—	26.523 E	26.556	26.530	26.559	26.455	26.379	26.389	—	—	4
5	—	—	—	26.524 E	26.553	26.528	26.562	26.459	26.379	26.395	—	—	5
6	—	—	—	26.526 A	26.548	26.524	26.558	26.455	26.395	26.396	—	—	6
7	—	—	—	26.529	26.545	26.520	26.554	26.448	26.391	26.394	—	—	7
8	—	—	—	26.535	26.545	26.515	26.549	26.442	26.391	26.395	—	—	8
9	—	—	—	26.540	26.538	26.513	26.542	26.437	26.390	26.392	—	—	9
10	—	—	—	26.549	26.538	26.510	26.536	26.432	26.388	26.394	—	—	10
11	—	—	—	26.560	26.535	26.511	26.528	26.431	26.382	26.396	—	—	11
12	—	—	—	26.576	26.539	26.507	26.520	26.425	26.378	26.396	—	—	12
13	—	—	—	26.585	26.550	26.507	26.516	26.422	26.374	26.395	—	—	13
14	—	—	—	26.579	26.552	26.562	26.511	26.420	26.374	26.394	—	—	14
15	—	—	—	26.577	26.550	26.589	26.508	26.416	26.369	26.393	—	—	15
16	—	—	—	26.576	26.545	26.615	26.509	26.409	26.370	26.396	—	—	16
17	—	—	—	26.575	26.541	26.604	26.504	26.406	26.375	26.393	—	—	17
18	—	—	—	26.568	26.542	26.594	26.499	26.408	26.382	26.393	—	—	18
19	—	—	—	26.565	26.540	26.582	26.497	26.409	26.379	26.391	—	—	19
20	—	—	—	26.568	26.536	26.575	26.496	26.402	26.375	26.395	—	—	20
21	—	—	—	26.574	26.538	26.576	26.499	26.415	26.377	26.394	—	—	21
22	—	—	—	26.580	26.539	26.573	26.495	26.416	26.374	26.390	—	—	22
23	—	—	—	26.580	26.540	26.566	26.478	26.411	26.373	26.390	—	—	23
24	—	—	—	26.578	26.538	26.556	26.472	26.411	26.373	26.392	—	—	24
25	—	—	—	26.578	26.536	26.551	26.469	26.408	26.370	26.392	—	—	25
26	—	—	—	26.577	26.534	26.546	26.465	26.406	26.370	26.392	—	—	26
27	—	—	—	26.575	26.532	26.537	26.461	26.406	26.370	26.394	—	—	27
28	—	—	—	26.575	26.535	26.526	26.459	26.404	26.372	26.392	—	—	28
29	—	—	—	26.570	26.533	26.522	26.456	26.401	26.369	26.389	—	—	29
30	—	—	—	26.569	26.528	26.526	26.457	26.400	26.372	26.387	—	—	30
31	—		—		26.524		26.466	26.397		26.389		—	31
MEAN	—	—	—	26.599	26.542	26.544	26.506	26.424	26.379	26.392	—	—	MEAN
MAX	—	—	—	26.585	26.565	26.615	26.562	26.466	26.394	26.396	—	—	MAX
MIN	—	—	—	26.520	26.524	26.507	26.456	26.397	26.369	26.387	—	—	MIN

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.615 METRES ON JUN 16
MINIMUM DAILY WATER LEVEL, 26.369 METRES ON SEP 15
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.618 METRES AT 0844 ON JUN 16

LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	26.495	26.510	26.464	26.491	26.419	26.308	26.306	——	——	1
2	——	——	——	26.505	26.511	26.461	26.488	26.414	26.305	26.305	——	——	2
3	——	——	——	26.518	26.508	26.453	26.487	26.410	26.303	26.304	——	——	3
4	——	——	——	26.531	26.504	26.451	26.481	26.407	26.303	26.302	——	——	4
5	——	——	——	26.545	26.503	26.470	26.479	26.400	26.304	26.300	——	——	5
6	——	——	——	26.556	26.502	26.473	26.468	26.397	26.301	26.299	——	——	6
7	——	——	——	26.565	26.514	26.492	26.465	26.394	26.301	26.300	——	——	7
8	——	——	——	26.566	26.518	26.506	26.464	26.387	26.311	26.299	——	——	8
9	——	——	——	26.568	26.517	26.525	26.460	26.387	26.316	26.300	——	——	9
10	——	——	——	26.570	26.517	26.524	26.457	26.378	26.318	26.298	——	——	10
11	——	——	——	26.570	26.521	26.519	26.454	26.374	26.323	26.298	——	——	11
12	——	——	——	26.568	26.522	26.522	26.452	26.371	26.324	26.300	——	——	12
13	——	——	——	26.563	26.522	26.538	26.457	26.369	26.325	26.300	——	——	13
14	——	——	——	26.556	26.518	26.537	26.463	26.369	26.325	26.326	——	——	14
15	——	——	——	26.548	26.513	26.531	26.457	26.366	26.323	26.339	——	——	15
16	——	——	——	26.543	26.506	26.531	26.457	26.362	26.320	26.345	——	——	16
17	——	——	——	26.536	26.504	26.528	26.456	26.357	26.317	26.424	——	——	17
18	——	——	——	26.531	26.500	26.524	26.453	26.353	26.315	26.456	——	——	18
19	——	——	——	26.527	26.501	26.516	26.449	26.350	26.313	26.493	——	——	19
20	——	——	——	26.524	26.498	26.513	26.443	26.351	26.310	26.531	——	——	20
21	——	——	——	26.521	26.503	26.513	26.443	26.356	26.311	26.546	——	——	21
22	——	——	——	26.515	26.499	26.516	26.442	26.351	26.310	26.547	——	——	22
23	——	——	——	26.513	26.494	26.515	26.438	26.348	26.304	26.544	——	——	23
24	——	——	——	26.510	26.492	26.505	26.435	26.343	26.306	26.537	——	——	24
25	——	——	——	26.507	26.488	26.500	26.430	26.340	26.310	26.532	——	——	25
26	——	——	——	26.508	26.485	26.505	26.426	26.339	26.309	26.526	——	——	26
27	——	——	——	26.512	26.479	26.514	26.425	26.335	26.312	26.525	——	——	27
28	——	——	26.476	26.520	26.474	26.507	26.417	26.333	26.311	26.521	——	——	28
29	——		26.477	26.519	26.474	26.501	26.414	26.326	26.311	26.517	——	——	29
30	——		26.480	26.516	26.469	26.497	26.416	26.315	26.309	26.512 E	——	——	30
31	——		26.483		26.465		26.421	26.310		26.513 E		——	31
MEAN	——	——	26.479	26.534	26.501	26.505	26.451	26.365	26.312	26.408	——	——	MEAN
MAX	——	——	26.483	26.570	26.522	26.538	26.491	26.419	26.325	26.547	——	——	MAX
MIN	——	——	26.476	26.495	26.465	26.451	26.414	26.310	26.301	26.298	——	——	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.570 METRES ON APR 11
MINIMUM DAILY WATER LEVEL, 26.298 METRES ON OCT 10
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.597 METRES AT 953 ON OCT 13

LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	26.562 E	26.618	26.539	—— N	26.456	26.528	26.559	26.526	——	1
2	——	——	——	——	26.609	26.536	—— N	26.455	26.530	26.557	26.520	——	2
3	——	——	——	26.562	26.597	26.530	—— N	26.449	26.538	26.552	26.519	——	3
4	——	——	——	26.566	26.608	26.529	—— N	26.463	26.543	26.499	26.519	——	4
5	——	——	——	26.566	26.610	26.524	—— N	26.464	26.543	26.547	26.519	——	5
6	——	——	——	26.569	26.614	26.521	—— N	26.469	26.539	26.541	——	——	6
7	——	——	——	26.573	26.623	26.519	—— N	26.458	26.537	26.542	——	——	7
8	——	——	——	26.575	26.620	26.519	26.530	26.456	26.528	26.560	——	——	8
9	——	——	——	26.575	26.611	26.514	26.521	26.451	26.532	26.560	——	——	9
10	——	——	——	26.581	26.597	26.509	26.514	26.446	26.519	26.559	——	——	10
11	——	——	——	26.584	26.611	26.504	26.505	26.445	26.518	26.558	——	——	11
12	——	——	——	26.585	26.636	26.500	26.499	26.450	26.513	26.564	——	——	12
13	——	——	——	26.586	26.664	26.495	26.499	26.471	26.508	26.578	——	——	13
14	——	——	——	26.592	26.651	—— N	26.492	26.479	26.508	26.579	——	——	14
15	——	——	——	26.597	26.648	—— N	26.489	26.482	26.508	26.580	——	——	15
16	——	——	——	26.600	26.674	—— N	26.480	26.479	26.507	26.579	——	——	16
17	——	——	——	26.596	26.660	—— N	26.480	26.554	26.508	26.578	——	——	17
18	——	——	——	26.592	26.643	—— N	26.483	26.588	26.506	26.570	——	——	18
19	——	——	——	26.587	26.629	—— N	26.499	26.587	26.588	26.569	——	——	19
20	——	——	——	26.586	26.616	—— N	26.489	26.580	26.658	26.563	——	——	20
21	——	——	——	26.618	26.602	—— N	26.484	26.573	26.638	26.559	——	——	21
22	——	——	——	26.742	26.592	—— N	26.479	26.574	26.622	26.559	——	——	22
23	——	——	——	—— N	26.584	—— N	26.485	26.577	26.611	26.555	——	——	23
24	——	——	——	—— N	26.573	—— N	26.489	26.569	26.605	26.549	——	——	24
25	——	——	——	—— N	26.563	—— N	26.489	26.564	26.597	26.548	——	——	25
26	——	——	——	—— N	26.555	—— N	26.485	26.559	26.589	26.542	——	——	26
27	——	——	——	—— N	26.547	—— N	26.477	26.551	26.579	26.539	——	——	27
28	——	——	——	—— N	26.539	—— N	26.474	26.546	26.578	26.526	——	——	28
29	——		——	—— N	26.541	—— N	26.466	26.538	26.569	26.530	——	——	29
30	——		——	26.631	26.549	—— N	26.465	26.533	26.566	26.529	——	——	30
31	——		——		26.542		26.461	26.529		26.528		——	31
MEAN	——	——	——	26.594	26.604	26.518	26.489	26.510	26.594	26.554	——	——	MEAN
MAX	——	——	——	26.742	26.674	26.539	26.530	26.588	26.658	26.580	——	——	MAX
MIN	——	——	——	26.562	26.539	26.519	26.461	26.445	26.506	26.499	——	——	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.742 METRES ON APR 22
MINIMUM DAILY WATER LEVEL, 26.445 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.752 METRES AT 0730 ON APR 22

LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	26.571	26.649	26.464	26.401	26.385	26.347	26.472	——	——	1
2	——	——	——	26.580	26.636	26.458	26.398	26.385	26.360	26.478	——	——	2
3	——	——	——	26.580	26.618	26.454	26.394	26.380	26.413	26.484	——	——	3
4	——	——	——	26.582	26.604	26.450	26.397	26.380	26.437	26.486	——	——	4
5	——	——	——	26.584	26.619	26.445	26.424	26.385	26.439	26.486	——	——	5
6	——	——	——	26.582	26.617	26.442	26.427	26.383	26.430	26.486	——	——	6
7	——	——	——	26.581	26.606	26.442	26.421	26.384	26.436	26.489	——	——	7
8	——	——	——	26.579	26.595	26.435	26.417	26.385	26.434	26.490	——	——	8
9	——	——	——	26.574	26.589	26.431	26.415	26.385	26.432	26.489	——	——	9
10	——	——	——	26.568	26.578	26.428	26.412	26.380	26.430	26.489	——	——	10
11	——	——	——	26.562	26.572	26.423	26.418	26.375	26.428	26.491	——	——	11
12	——	——	——	26.556	26.565	26.419	26.419	26.370	26.432	26.489	——	——	12
13	——	——	——	26.552	26.558	26.415	26.418	26.368	26.432	26.488	——	——	13
14	——	——	——	26.546	26.552	26.408	26.417	26.367	26.430	26.486	——	——	14
15	——	——	——	26.541	26.544	26.409	26.415	26.363	26.428	26.484	——	——	15
16	——	——	——	26.537	26.537	26.408	26.413	26.381	26.427	26.484	——	——	16
17	——	——	——	26.534	26.530	26.405	26.413	26.377	26.434	26.484	——	——	17
18	——	——	——	26.532	26.523	26.402	26.412	26.374	26.436	26.483	——	——	18
19	——	——	——	26.545	26.518	26.399	26.410	26.377	26.438	26.482	——	——	19
20	——	——	——	26.562	26.513	26.405	26.413	26.383	26.436	26.480	——	——	20
21	——	——	——	26.562	26.509	26.413	26.408	26.379	26.437	26.480	——	——	21
22	——	——	——	26.557	26.502	26.412	26.405	26.376	26.447	26.479	——	——	22
23	——	——	——	26.553	26.498	26.407	26.402	26.374	26.449	26.477	——	——	23
24	——	——	——	26.548	26.494	26.401	26.400	26.372	26.449	26.476	——	——	24
25	——	——	——	26.544	26.492	26.408	26.397	26.374	26.454	26.475	——	——	25
26	——	——	——	26.566	26.489	26.416	26.394	26.369	26.457	26.475	——	——	26
27	——	——	——	26.580	26.486	26.417	26.391	26.364	26.465	26.474	——	——	27
28	——	——	——	26.635	26.482	26.411	26.391	26.358	26.466	26.474	——	——	28
29	——		26.486	26.656	26.478	26.406	26.394	26.355	26.468	26.472	——	——	29
30	——		26.510	26.642	26.472	26.402	26.390	26.352	26.471	26.471	——	——	30
31	——		26.545		26.468		26.386	26.350		26.473 A		——	31
MEAN	——	——	——	26.570	26.545	26.421	26.407	26.374	26.435	26.482	——	——	MEAN
MAX	——	——	——	26.656	26.649	26.464	26.427	26.385	26.471	26.491	——	——	MAX
MIN	——	——	——	26.532	26.468	26.399	26.386	26.350	26.347	26.471	——	——	MIN

NOTES

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WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.656 METRES ON APR 29
MINIMUM DAILY WATER LEVEL, 26.347 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.662 METRES AT 23:50 ON APR 28

LAKE 114
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	26.548	26.458	26.495	26.428	26.394	26.425	26.379	26.384	----	1
2	----	----	----	26.548	26.454	26.494	26.432	26.391	26.422	26.376	26.383 A	----	2
3	----	----	----	26.548	26.449	26.487	26.430	26.387	26.420	26.374	----	----	3
4	----	----	----	26.542	26.446	26.485	26.427	26.381	26.418	26.373	----	----	4
5	----	----	----	26.531	26.443	26.482	26.424	26.376	26.416	26.379	----	----	5
6	----	----	----	26.531	26.439	26.481	26.421	26.378	26.415	26.379	----	----	6
7	----	----	----	26.536	26.436	26.479	26.420	26.378	26.413	26.376	----	----	7
8	----	----	----	26.541	26.432	26.472	26.415	26.375	26.412	26.377	----	----	8
9	----	----	----	26.543	26.428	26.468	26.411	26.373	26.409	26.384	----	----	9
10	----	----	----	26.543	26.424	26.466	26.406	26.370	26.407	26.383	----	----	10
11	----	----	----	26.541	26.420	26.500	26.403	26.385	26.406	26.382	----	----	11
12	----	----	----	26.537	26.416	26.504	26.409	26.424	26.406	26.381	----	----	12
13	----	----	----	26.534	26.421	26.503	26.410	26.426	26.407	26.380	----	----	13
14	----	----	----	26.529	26.427	26.497	26.405	26.425	26.406	26.379	----	----	14
15	----	----	----	26.524	26.424	26.490	26.405	26.428	26.406	26.377	----	----	15
16	----	----	----	26.522	26.425	26.485	26.406	26.449	26.402	26.377	----	----	16
17	----	----	----	26.519	26.423	26.481	26.405	26.453	26.399	26.377	----	----	17
18	----	----	----	26.514	26.420	26.476	26.401	26.454	26.397	26.376	----	----	18
19	----	----	----	26.512	26.415	26.472	26.405	26.453	26.397	26.375	----	----	19
20	----	----	----	26.508	26.415	26.467	26.407	26.452	26.394	26.375	----	----	20
21	----	----	----	26.502	26.451	26.464	26.406	26.448	26.393	26.375	----	----	21
22	----	----	----	26.498	26.477	26.464	26.408	26.443	26.391	26.374	----	----	22
23	----	----	----	26.494	26.481	26.460	26.410	26.439	26.389	26.375	----	----	23
24	----	----	----	26.490	26.482	26.453	26.407	26.437	26.386	26.376	----	----	24
25	----	----	----	26.488	26.483	26.447	26.404	26.434	26.383	26.376	----	----	25
26	----	----	----	26.484	26.495	26.445	26.402	26.433	26.380	26.379	----	----	26
27	----	----	----	26.478	26.502	26.442	26.397	26.432	26.378	26.383	----	----	27
28	----	----	----	26.470	26.504	26.438	26.393	26.429	26.379	26.383	----	----	28
29	----		----	26.465	26.503	26.433	26.388	26.428	26.382	26.383	----	----	29
30	----		----	26.460	26.500	26.429	26.384	26.432	26.380	26.383	----	----	30
31	----		26.548 A		26.495		26.390	26.429		26.383		----	31
MEAN	----	----	----	26.516	26.481	26.472	26.408	26.417	26.401	26.379	----	----	MEAN
MAX	----	----	----	26.548	26.504	26.504	26.432	26.454	26.425	26.384	----	----	MAX
MIN	----	----	----	26.460	26.415	26.429	26.384	26.370	26.378	26.373	----	----	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 26.548 METRES ON APR 01
MINIMUM DAILY WATER LEVEL, 26.370 METRES ON AUG 10
MAXIMUM INSTANTANEOUS WATER LEVEL, 26.549 METRES AT 10:22 ON APR 01

LAKE 223 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0101	0.0506	0.0260	0.0089	0.0222	0.0074	0.0019	----	----	1
2	----	----	----	0.0091	0.0460	0.0244	0.0148	0.0205	0.0073	0.0012	----	----	2
3	----	----	----	0.0092	0.0446	0.0252	0.0725	0.0198	0.0071	0.0025	----	----	3
4	----	----	----	0.0089	0.0456	0.0276	0.0934	0.0183	0.0060	0.0019	----	----	4
5	----	----	----	0.0093	0.0482	0.0244	0.0973	0.0174	0.0053	0.0017	----	----	5
6	----	----	----	0.0096	0.0459	0.0233	0.0883	0.0173	0.0041	0.0021	----	----	6
7	----	----	----	0.0102	0.0456	0.0296	0.0767	0.0159	0.0041	0.0033	----	----	7
8	----	----	----	0.0096	0.0441	0.0280	0.0632	0.0163	0.0036	0.0033	----	----	8
9	----	----	----	0.0089	0.0416	0.0295	0.0552	0.0159	0.0032	0.0039	----	----	9
10	----	0.0030 A	----	0.0090	0.0418	0.0333	0.0500	0.0152	0.0026	0.0054	----	----	10
11	----	----	0.0066 A	0.0092	0.0402	0.0317	0.0465	0.0135	0.0024	0.0074	----	----	11
12	----	----	----	0.0088	0.0382	0.0294	0.0436	0.0114	0.0027	0.0096	----	----	12
13	----	----	----	0.0088	0.0356	0.0281	0.0399	0.0121	0.0028	0.0129	----	0.0089 A	13
14	----	----	----	0.0091	0.0332	0.0278	0.0378	0.0119	0.0018	0.0202	----	----	14
15	----	----	----	0.0106	0.0352	0.0267	0.0359	0.0111	0.0023	0.0237	----	0.0079 A	15
16	----	----	----	0.0166	0.0368	0.0252	0.0341	0.0115	0.0020	0.0225	----	----	16
17	----	----	----	0.0254	0.0407	0.0245	0.0377	0.0114	0.0021	0.0246	----	----	17
18	----	----	----	0.0311	0.0588	0.0230	0.0352	0.0112	0.0019	0.0239	----	----	18
19	----	----	----	0.0325	0.0708	0.0208	0.0321	0.0113	0.0016	0.0223	----	----	19
20	----	----	----	0.0328	0.0762	0.0195	0.0309	0.0110	0.0014	0.0207	----	----	20
21	----	----	----	0.0335	0.1080	0.0193	0.0304	0.0114	0.0010	0.0190	----	----	21
22	----	----	----	0.0384	0.0839	0.0174	0.0293	0.0111	0.0006	0.0185	----	----	22
23	----	----	----	0.0535	0.0636	0.0162	0.0275	0.0108	0.0009	0.0170	----	----	23
24	----	----	----	0.0784	0.0501	0.0147	0.0343	0.0107	0.0010	0.0166	----	----	24
25	----	----	----	0.0932	0.0417	0.0144	0.0321	0.0102	0.0010	0.0163	----	----	25
26	----	----	----	0.0857	0.0300	0.0136	0.0305	0.0096	0.0009	0.0158	----	----	26
27	----	----	----	0.0738	0.0356	0.0128	0.0292	0.0085	0.0010	0.0161	----	----	27
28	----	----	----	0.0644	0.0247	0.0125	0.0270	0.0077	0.0025	0.0157	----	----	28
29	----		----	0.0590	0.0169	0.0115	0.0262	0.0069	0.0023	0.0152	----	----	29
30	----		----	0.0559	0.0189	0.0109	0.0253	0.0068	0.0020	0.0157	----	----	30
31	----		----		0.0220		0.0240	0.0058		0.0141		0.0076 E	31
TOTAL	----	----	----	0.9146	1.4151	0.6713	1.3098	0.3949	0.0849	0.3963	----	----	TOTAL
MEAN	----	----	----	0.0305	0.0456	0.0224	0.0423	0.0127	0.0028	0.0128	----	----	MEAN
MAX	----	----	----	0.0932	0.1080	0.0333	0.0973	0.0222	0.0074	0.0246	----	----	MAX
MIN	----	----	----	0.0088	0.0169	0.0109	0.0089	0.0058	0.0006	0.0017	----	----	MIN

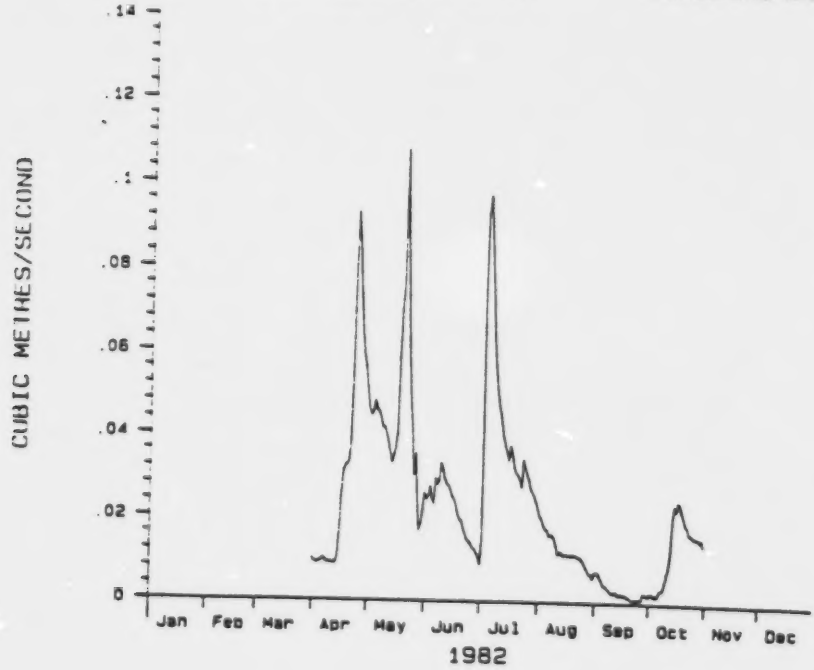
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	79021	122265	58000	113167	34119	7335	34240	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	448148	CUBIC METRES
MEAN DISCHARGE,	0.0242	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1080	CUBIC METRES/SEC ON MAY 21
MIN DAILY DISCHARGE,	0.0006	CUBIC METRES/SEC ON SEP 22
MAX INSTANTANEOUS FLOW,	0.1240	CUBIC METRES/SEC ON MAY 20

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 223 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0076 E	----	----	0.0097	0.0242	0.0172	0.0166 E	0.0049	0.0003	0.0004	----	----	1
2	----	----	----	0.0112	0.0229	0.0161	0.0152 E	0.0042	0.0003	0.0003	----	----	2
3	----	----	----	0.0115	0.0213	0.0179	0.0171 E	0.0044	0.0002	0.0003	----	----	3
4	----	----	----	0.0104	0.0211	0.0221	0.0189 E	0.0042	0.0002	0.0002	----	----	4
5	----	----	----	0.0058	0.0216	0.0222	0.0176 E	0.0046	0.0003	0.0004	----	----	5
6	----	----	----	0.0094 A	0.0210	0.0222	0.0161 E	0.0042	0.0005	0.0004	----	----	6
7	----	----	----	0.0094 A	0.0206	0.0207	0.0150 E	0.0041	0.0003	0.0003	----	----	7
8	----	----	----	0.0093	0.0203	0.0183	0.0136 E	0.0038	0.0003	0.0003	----	----	8
9	----	----	----	0.0094	0.0178	0.0170	0.0126 E	0.0032	0.0003	0.0002	----	----	9
10	----	----	----	0.0092	0.0162	0.0155	0.0120 E	0.0028	0.0003	0.0003	----	----	10
11	----	----	----	0.0088	0.0164	0.0162	0.0112 E	0.0025	0.0003	0.0003	----	----	11
12	0.0074 A	----	----	0.0091	0.0193	0.0169	0.0106 E	0.0018	0.0002	0.0003	----	----	12
13	----	----	----	0.0092	0.0233	0.0164	0.0099 E	0.0022	0.0003	0.0003	----	0.0008 A	13
14	----	----	----	0.0092	0.0238	0.0202 E	0.0094 E	0.0019	0.0003	0.0003	----	----	14
15	----	----	0.0110 A	0.0089	0.0234	0.0364 E	0.0089 E	0.0015	0.0002	0.0004	----	----	15
16	----	0.0237 A	----	0.0088	0.0226	0.0450 E	0.0112 E	0.0012	0.0002	0.0004	----	----	16
17	----	----	----	0.0086	0.0224	0.0442 E	0.0112 E	0.0010	0.0003	0.0003	----	----	17
18	----	----	----	0.0087	0.0219	0.0424 E	0.0106 E	0.0010	0.0004	0.0002	----	----	18
19	----	----	----	0.0085	0.0201	0.0375 E	0.0106 E	0.0008	0.0003	0.0002	----	----	19
20	----	----	----	0.0089	0.0195	0.0330 E	0.0104 E	0.0009	0.0003	0.0001	----	----	20
21	----	----	----	0.0099	0.0187	0.0284 E	0.0095 E	0.0013	0.0003	0.0000	----	----	21
22	----	----	----	0.0111	0.0206	0.0308 E	0.0090 E	0.0013	0.0002	0.0001	----	----	22
23	----	----	----	0.0122	0.0205	0.0284 E	0.0083 E	0.0010	0.0002	0.0001	----	----	23
24	----	----	----	0.0130 A	0.0204	0.0265 E	0.0075 A	0.0009	0.0002	0.0002	----	----	24
25	----	----	----	0.0150 E	0.0194	0.0246 E	0.0066	0.0007	0.0001	0.0002	----	----	25
26	----	----	----	0.0171 E	0.0176	0.0225 E	0.0051	0.0007	0.0001	0.0002	----	----	26
27	----	----	----	0.0192 E	0.0163	0.0205 E	0.0051	0.0007	0.0001	0.0002	----	----	27
28	----	----	----	0.0216 A	0.0173	0.0184 E	0.0049	0.0005	0.0001	0.0003	----	----	28
29	----		----	0.0237	0.0181	0.0169 E	0.0049	0.0006	0.0001	0.0002	----	----	29
30	----		----	0.0240	0.0181	0.0184 E	0.0042	0.0007	0.0002	0.0001	----	----	30
31	----		----		0.0169		0.0049	0.0004		0.0001		----	31
TOTAL	----	----	----	0.3548	0.6236	0.7328	0.3287	0.0640	0.0074	0.0076	----	----	TOTAL
MEAN	----	----	----	0.0118	0.0201	0.0244	0.0106	0.0021	0.0002	0.0002	----	----	MEAN
MAX	----	----	----	0.0240	0.0242	0.0450	0.0189	0.0049	0.0005	0.0004	----	----	MAX
MIN	----	----	----	0.0085	0.0162	0.0155	0.0042	0.0004	0.0001	0.0000	----	----	MIN

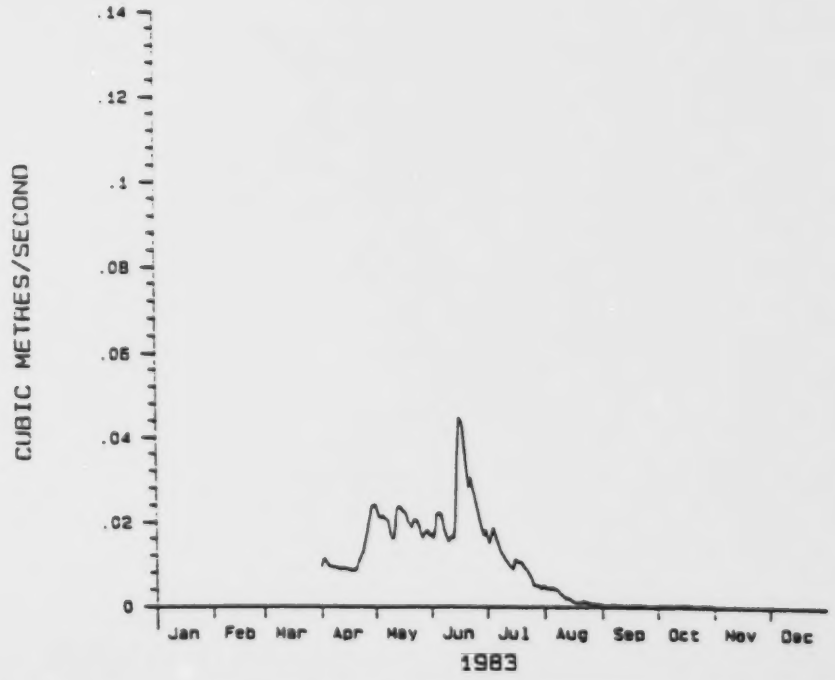
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	30655	53879	63314	28400	5530	639	657	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	183073	CUBIC METRES	
MEAN DISCHARGE.	0.0099	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.0450	CUBIC METRES/SEC ON	JUN 16
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON	AUG 28
MAX INSTANTANEOUS FLOW.	M	CUBIC METRES/SEC ON	JUN 16

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 223 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0018 E	0.0032	0.0060	0.0217	0.0002	0.0001	0.0001	----	----	1
2	----	----	----	0.0020 A	0.0030	0.0104	0.0215	0.0002	0.0001	0.0001	----	----	2
3	----	----	----	0.0019	0.0031	0.0078	0.0204	0.0002	0.0001	0.0001	----	----	3
4	----	----	----	0.0022	0.0023	0.0036	0.0206	0.0002	0.0001	0.0001	----	----	4
5	----	----	----	0.0024	0.0025	0.0094	0.0188	0.0001	0.0001	0.0001	----	----	5
6	----	----	----	0.0025	0.0029	0.0097	0.0164	0.0001	0.0001	0.0001	----	----	6
7	----	0.0020 A	0.0019 A	0.0029	0.0077	0.0158	0.0146	0.0001	0.0003	0.0001	----	----	7
8	----	----	----	0.0033	0.0158	0.0197	0.0125	0.0001	0.0002	0.0001	----	----	8
9	----	----	----	0.0039	0.0127	0.0259	0.0109	0.0004	0.0002	0.0001	----	----	9
10	----	----	----	0.0041	0.0119	0.0242	0.0103	0.0002	0.0002	0.0001	----	----	10
11	----	----	----	0.0047	0.0140	0.0205	0.0085	0.0001	0.0002	0.0001	----	----	11
12	----	----	----	0.0053	0.0164	0.0187	0.0075	0.0001	0.0002	0.0001	----	0.0077 A	12
13	----	----	----	0.0061	0.0149	0.0266	0.0077	0.0000	0.0002	0.0002	----	----	13
14	----	----	----	0.0066	0.0145	0.0279	0.0088	0.0002	0.0001	0.0004	----	----	14
15	----	----	----	0.0075	0.0124	0.0260	0.0079	0.0001	0.0001	0.0002	----	----	15
16	----	----	----	0.0070	0.0146	0.0235	0.0073	0.0001	0.0001	0.0002	----	----	16
17	----	----	----	0.0068	0.0157	0.0211	0.0066	0.0000	0.0001	0.0009	----	----	17
18	----	----	----	0.0064	0.0231	0.0216	0.0052	0.0001	0.0001	0.0005	----	----	18
19	----	----	----	0.0058	0.0222	0.0200	0.0045	0.0001	0.0001	0.0015	----	----	19
20	----	----	----	0.0059	0.0197	0.0169	0.0036	0.0002	0.0001	0.0026	----	----	20
21	----	----	----	0.0057	0.0217	0.0235	0.0037	0.0001	0.0002	0.0048	----	----	21
22	----	----	----	0.0055	0.0194	0.0275	0.0032	0.0001	0.0001	0.0080	----	----	22
23	----	----	----	0.0043	0.0174	0.0289	0.0029	0.0001	0.0001	0.0064	----	----	23
24	----	----	----	0.0032	0.0163	0.0282	0.0021	0.0001	0.0003	0.0056	----	----	24
25	----	----	----	0.0026	0.0150	0.0269	0.0013	0.0001	0.0003	0.0047	----	----	25
26	----	----	----	0.0023	0.0140	0.0272	0.0009	0.0000	0.0002	0.0045	----	----	26
27	----	----	----	0.0025	0.0116	0.0282	0.0005	0.0001	0.0001	0.0045	----	----	27
28	----	----	----	0.0030	0.0096	0.0268	0.0003	0.0000	0.0001	0.0046	----	----	28
29	----		----	0.0034	0.0080	0.0253	0.0002	0.0000	0.0001	0.0045	----	----	29
30	----		----	0.0035	0.0063	0.0233	0.0002	0.0001	0.0001	0.0044	----	----	30
31	----		----		0.0062		0.0003	0.0001		0.0044		0.0059 E	31
TOTAL	----	----	----	0.1251	0.3781	0.6211	0.2509	0.0036	0.0044	0.0643	----	----	TOTAL
MEAN	----	----	----	0.0042	0.0122	0.0207	0.0081	0.0001	0.0001	0.0021	----	----	MEAN
MAX	----	----	----	0.0075	0.0231	0.0289	0.0217	0.0004	0.0003	0.0080	----	----	MAX
MIN	----	----	----	0.0018	0.0023	0.0036	0.0002	0.0000	0.0001	0.0001	----	----	MIN

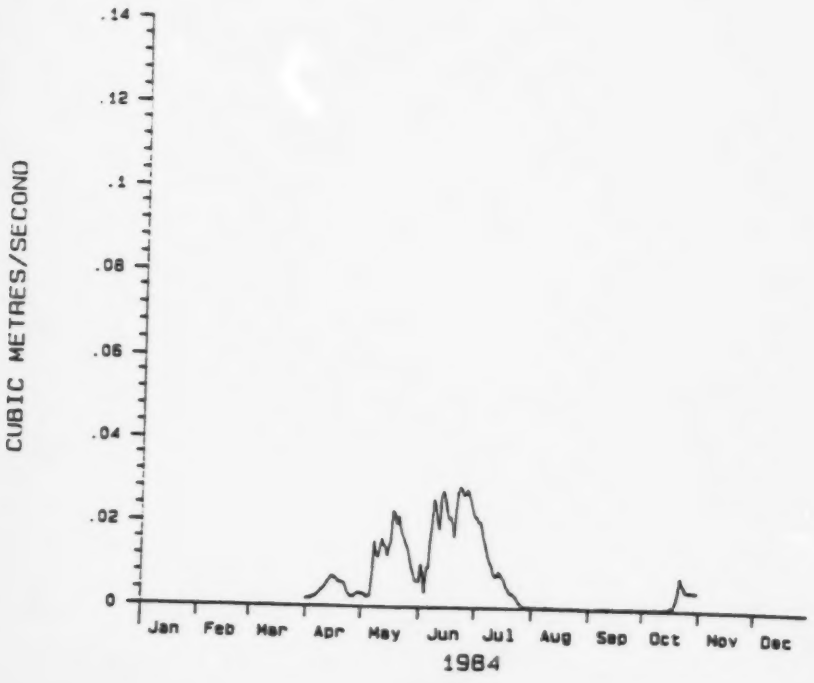
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	10809	32668	53663	21678	311	380	5556	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	125064	CUBIC METRES
MEAN DISCHARGE,	0.0068	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0289	CUBIC METRES/SEC ON JUN 23
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 13
MAX INSTANTANEOUS FLOW,	0.0319	CUBIC METRES/SEC ON JUN 23

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0059 E	—	—	0.0008 E	0.0851	0.0511	0.0323	0.0164	0.0225	0.0312	0.0187	—	1
2	—	—	—	0.0008 E	0.0776	0.0478	0.0312	0.0155	0.0231	0.0295	0.0184	—	2
3	—	—	—	0.0009	0.0722	0.0442	0.0298	0.0152	0.0243	0.0285	0.0179	—	3
4	—	—	—	0.0008	0.0794	0.0408	0.0262	0.0155	0.0246	0.0278	0.0176	—	4
5	—	—	—	0.0008	0.0806	0.0404	0.0225	0.0150	0.0243	0.0278	0.0159	—	5
6	—	—	—	0.0009	0.0857	0.0364	0.0195	0.0150	0.0237	0.0262	—	—	6
7	—	—	—	0.0009	0.0957	0.0334	0.0184	0.0146	0.0240	0.0265	—	—	7
8	—	—	—	0.0008	0.0916	0.0320	0.0164	0.0136	0.0225	0.0323	—	—	8
9	—	—	—	0.0009	0.0864	0.0305	0.0155	0.0124	0.0217	0.0320	—	—	9
10	—	—	—	0.0010	0.0782	0.0265	0.0141 E	0.0112	0.0217	0.0312	—	0.0166 A	10
11	—	—	—	0.0012	0.0930	0.0243	0.0139 E	0.0106	0.0214	0.0295	—	—	11
12	—	—	—	0.0013	0.1230 C	0.0225	0.0137 E	0.0111	0.0197	0.0292	—	—	12
13	—	—	—	0.0014	0.2069 C	0.0214	0.0136 E	0.0130	0.0195	0.0312	—	—	13
14	—	—	—	0.0016	0.1956 C	0.0197	0.0133 E	0.0128	0.0192	0.0316	—	—	14
15	—	—	—	0.0025	0.1870 C	0.0197	0.0132 E	0.0126	0.0192	0.0320	—	—	15
16	—	—	—	0.0025	0.1470 C	0.0211	0.0130 E	0.0124	0.0189	0.0316	—	—	16
17	—	—	—	0.0024	0.1093	0.0237	0.0128 E	0.0156	0.0179	0.0312	—	—	17
18	—	—	—	0.0022	0.1071	0.0237	0.0143	0.0172	0.0179	0.0295	—	—	18
19	—	0.0043 A	0.0025 A	0.0029	0.1064	0.0208	0.0169	0.0176	0.0270	0.0288	—	—	19
20	—	—	—	0.0087	0.1049	0.0195	0.0172	0.0176	0.0506	0.0282	—	—	20
21	0.0039 A	—	—	0.0379	0.0992	0.0197	0.0174	0.0174	0.0632	0.0275	—	—	21
22	—	—	—	0.1950 C	0.0957	0.0282	0.0174	0.0200	0.0622	0.0272	—	—	22
23	—	—	—	0.2300 C	0.0896	0.0278	0.0191	0.0243	0.0590	0.0243	—	—	23
24	—	—	—	0.2380 C	0.0825	0.0272	0.0206	0.0256	0.0575	0.0228	—	—	24
25	—	—	—	0.2300 C	0.0746	0.0262	0.0203	0.0259	0.0492	0.0222	—	—	25
26	—	—	—	0.2100 C	0.0710	0.0265	0.0200	0.0259	0.0434	0.0231	—	—	26
27	—	—	—	0.1790 C	0.0688	0.0278	0.0189	0.0256	0.0400	0.0217	—	—	27
28	—	—	—	0.1650 C	0.0647	0.0312	0.0184	0.0249	0.0388	0.0206	—	—	28
29	—		—	0.1460 E	0.0606	0.0320	0.0184 E	0.0243	0.0357	0.0195	—	—	29
30	—		—	0.1420 E	0.0508	0.0338	0.0172 E	0.0231	0.0334	0.0189	—	—	30
31	—		—		0.0538		0.0162 E	0.0237		0.0189		0.0123 E	31
TOTAL	—	—	—	1.8082	3.0196	0.8799	0.5707	0.5456	0.9461	0.8425	—	—	TOTAL
MEAN	—	—	—	0.0603	0.0974	0.0293	0.0184	0.0176	0.0315	0.0272	—	—	MEAN
MAX	—	—	—	0.2380	0.2069	0.0511	0.0323	0.0259	0.0632	0.0323	—	—	MAX
MIN	—	—	—	0.0008	0.0508	0.0195	0.0128	0.0106	0.0179	0.0189	—	—	MIN

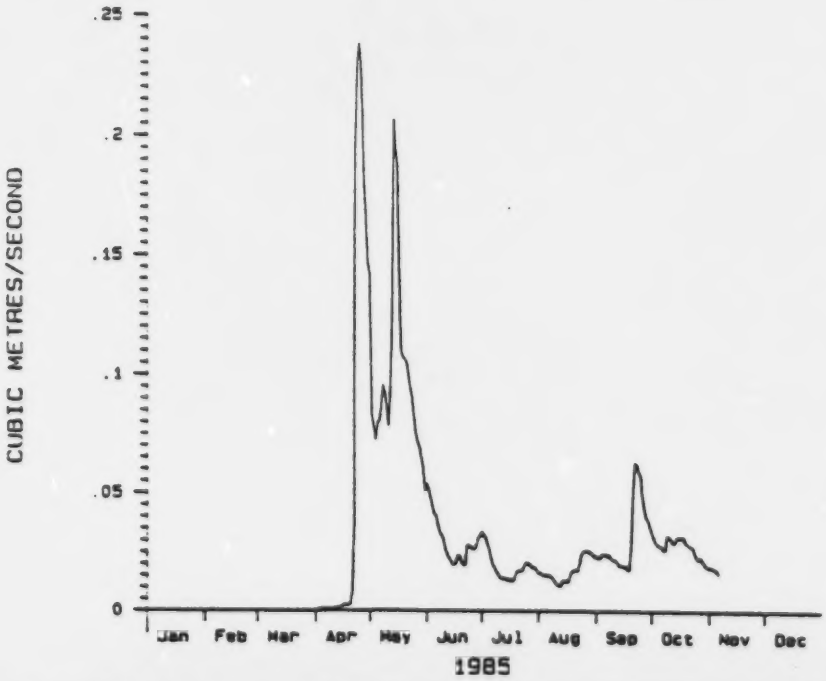
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	156228	260893	76023	49308	47140	81743	72792	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	744129	CUBIC METRES
MEAN DISCHARGE.	0.0402	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.2380 C	CUBIC METRES/SEC ON APR 24
MIN DAILY DISCHARGE.	0.0008	CUBIC METRES/SEC ON APR 01
MAX INSTANTANEOUS FLOW.	M,C	CUBIC METRES/SEC ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
C WEIR CAPACITY EXCEEDED, VALUE SHOULD BE CONSIDERED AS AN ESTIMATE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 223 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0123 E	—	—	0.0089	0.1346	0.0133	0.0022	0.0079	0.0006 E	0.0072	0.0009	—	1
2	—	—	—	0.0098	0.1134	0.0116	0.0021	0.0035	0.0009 E	0.0080	0.0007	—	2
3	—	—	—	0.0114	0.0955	0.0108	0.0022	0.0035	0.0024 E	0.0080	0.0006 A	—	3
4	—	—	—	0.0134	0.0882	0.0099	0.0025	0.0038	0.0029 E	0.0070	—	—	4
5	—	—	0.0059 A	0.0158	0.1040	0.0092	0.0080	0.0038	0.0026 E	0.0065	—	—	5
6	—	—	—	0.0188	0.1029	0.0087	0.0087	0.0033 A	0.0023 E	0.0052	—	—	6
7	—	—	—	0.0221	0.0941	0.0085	0.0065	0.0027 E	0.0022 E	0.0058	—	—	7
8	—	—	—	0.0255	0.0843	0.0074	0.0054	0.0039 E	0.0019 E	0.0050	—	—	8
9	—	—	—	0.0280	0.0906	0.0065	0.0050	0.0035 E	0.0022 A	0.0049	—	0.0050 A	9
10	—	—	—	0.0278	0.0850	0.0059	0.0044	0.0033 E	0.0034	0.0046	—	—	10
11	—	—	—	0.0252	0.0780	0.0053	0.0051	0.0029 E	0.0029	0.0043	—	—	11
12	—	—	—	0.0247	0.0716	0.0045	0.0058	0.0026 E	0.0034	0.0037	—	—	12
13	—	—	—	0.0250	0.0647	0.0077	0.0052	0.0024 E	0.0030	0.0032	—	—	13
14	—	—	—	0.0250	0.0585	0.0031	0.0049	0.0024 E	0.0028	0.0032	—	—	14
15	—	—	—	0.0249	0.0538	0.0029	0.0045	0.0023 E	0.0026	0.0031	—	—	15
16	—	—	—	0.0246	0.0501	0.0027	0.0042	0.0028 E	0.0090	0.0025	—	—	16
17	—	—	—	0.0238	0.0445	0.0023	0.0042	0.0026 E	0.0145	0.0023	—	—	17
18	—	0.0060 A	—	0.0243	0.0410	0.0020	0.0039	0.0023 E	0.0135	0.0023	—	—	18
19	—	—	—	0.0279	0.0364	0.0017	0.0037	0.0023 E	0.0116	0.0021	—	—	19
20	—	—	—	0.0301	0.0317	0.0020	0.0038	0.0024 E	0.0099	0.0020	—	—	20
21	0.0080 A	—	—	0.0308	0.0287	0.0023	0.0038	0.0022 E	0.0090	0.0019	—	—	21
22	—	—	—	0.0409	0.0264	0.0024	0.0035	0.0019 E	0.0110	0.0018	—	—	22
23	—	—	—	0.0572	0.0236	0.0018	0.0035	0.0018 E	0.0103	0.0015	—	—	23
24	—	—	0.0052 A	0.0531	0.0228	0.0016	0.0038	0.0016 E	0.0094	0.0013	—	—	24
25	—	—	0.0050 A	0.0489	0.0217	0.0025	0.0041	0.0015 E	0.0096	0.0013	—	—	25
26	—	—	0.0051	0.0548	0.0206	0.0072	0.0029	0.0013 E	0.0097	0.0013	—	—	26
27	—	—	0.0051	0.0618	0.0194	0.0074	0.0046	0.0011 E	0.0095	0.0013	—	—	27
28	—	—	0.0054	0.1043	0.0178	0.0031	0.0042	0.0009 E	0.0086	0.0013	—	—	28
29	—		0.0059	0.1302	0.0174	0.0026	0.0041	0.0008 E	0.0079	0.0011	—	—	29
30	—		0.0065	0.1290	0.0159	0.0022	0.0039	0.0007 E	0.0080	0.0011	—	—	30
31	—		0.0078		0.0144		0.0039	0.0006 E		0.0015		0.0040 E	31
TOTAL	—	—	—	1.1480	1.7516	0.1471	0.1356	0.0756	0.1876	0.1071	—	—	TOTAL
MEAN	—	—	—	0.0383	0.0565	0.0049	0.0044	0.0024	0.0063	0.0035	—	—	MEAN
MAX	—	—	—	0.1302	0.1346	0.0133	0.0087	0.0039	0.0145	0.0080	—	—	MAX
MIN	—	—	—	0.0089	0.0144	0.0016	0.0021	0.0006	0.0006	0.0011	—	—	MIN

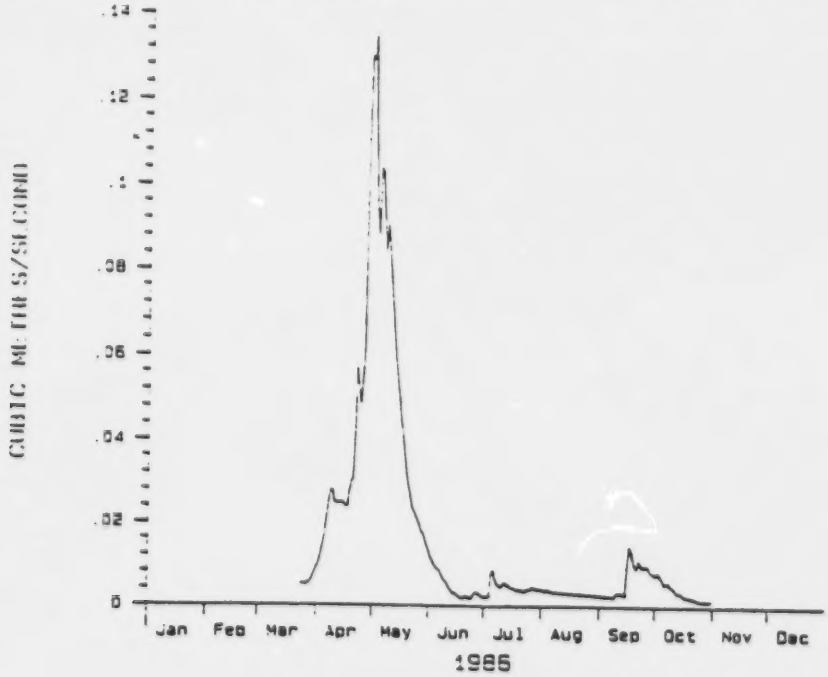
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	99187	151338	12709	11716	6532	16209	9253	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	306945	CUBIC METRES	
MEAN DISCHARGE,	0.0166	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.1346	CUBIC METRES/SEC	ON MAY 01
MIN DAILY DISCHARGE,	0.0016	CUBIC METRES/SEC	ON JUN 24
MAX INSTANTANEOUS FLOW,	0.1484	CUBIC METRES/SEC	ON MAY 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 223 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0400 E	----	0.0026 E	0.0205	0.0087	0.0229	0.0017	0.0007 E	0.0005	0.0001	0.0000	----	1
2	----	----	0.0027 E	0.0191	0.0080	0.0253	0.0020	0.0007 E	0.0003	0.0001	0.0000 A	----	2
3	----	----	0.0028 E	0.0176	0.0070	0.0206	0.0016	0.0007 E	0.0003	0.0001	----	----	3
4	----	----	0.0029 E	0.0165	0.0063	0.0181	0.0013	0.0002	0.0002	0.0001	----	----	4
5	----	----	0.0029 A	0.0160	0.0061	0.0155	0.0009	0.0001	0.0001	0.0001	----	----	5
6	----	----	0.0029 E	0.0162	0.0052	0.0150	0.0007	0.0007	0.0001	0.0001	----	----	6
7	----	----	0.0029 E	0.0181	0.0047	0.0144	0.0008	0.0003	0.0001	0.0001	----	----	7
8	----	----	0.0029 E	0.0225	0.0044	0.0120	0.0005	0.0002	0.0001	0.0001	----	----	8
9	----	----	0.0029 E	0.0287	0.0032	0.0099	0.0003	0.0001	0.0001	0.0001	----	----	9
10	----	----	0.0029 E	0.0349	0.0025	0.0096	0.0003	0.0000	0.0001	0.0001	----	----	10
11	----	----	0.0029 E	0.0373	0.0022	0.0262	0.0003	0.0046	0.0002	0.0001	----	----	11
12	----	----	0.0029 E	0.0379	0.0018	0.0246	0.0008	0.0106	0.0002 E	0.0001	----	----	12
13	----	----	0.0029 E	0.0367	0.0033	0.0214	0.0004	0.0077	0.0001 E	0.0000	----	----	13
14	----	----	0.0029 E	0.0344	0.0044	0.0184	0.0002	0.0059	0.0001 E	0.0000	----	----	14
15	----	----	0.0029 E	0.0331	0.0038	0.0148	0.0002	0.0072	0.0000 E	0.0000	----	----	15
16	----	----	0.0029 E	0.0315	0.0036	0.0123	0.0003	0.0162	0.0000	0.0001	----	----	16
17	----	0.0018 A	0.0029 E	0.0298	0.0038	0.0108	0.0001	0.0128 A	0.0000	0.0001	----	0.0000 A	17
18	----	----	0.0029 E	0.0278	0.0034	0.0093	0.0003	0.0115 E	0.0000	0.0000	----	----	18
19	----	----	0.0029 E	0.0265	0.0022	0.0079	0.0006	0.0102 E	0.0000	0.0000	----	----	19
20	----	----	0.0029 E	0.0243	0.0020	0.0066	0.0002	0.0090 E	0.0000	0.0001	----	----	20
21	0.0027 A	----	0.0048 E	0.0219	0.0172	0.0058	0.0001	0.0078 E	0.0000	0.0000	----	----	21
22	----	----	0.0068 E	0.0204	0.0237	0.0058	0.0004	0.0065 E	0.0000	0.0000	----	----	22
23	----	----	0.0087 E	0.0182	0.0218	0.0052	0.0003	0.0052 E	0.0000	0.0001	----	----	23
24	----	----	0.0106 A	0.0170	0.0203	0.0039	0.0003	0.0039 E	0.0000	0.0000	----	----	24
25	----	----	0.0141	0.0159	0.0192	0.0031	0.0006	0.0027 A	0.0000	0.0000	----	----	25
26	----	----	0.0179	0.0158	0.0285	0.0045	0.0007	0.0018	0.0000	0.0001	----	----	26
27	----	----	0.0213	0.0146	0.0306	0.0042	0.0004 A	0.0013	0.0000	0.0001	----	----	27
28	----	----	0.0229	0.0132	0.0299	0.0031	0.0004 E	0.0011	0.0001	0.0000	----	----	28
29	----		0.0224	0.0108	0.0270	0.0024	0.0004 E	0.0013	0.0001	0.0000	----	----	29
30	----		0.0222	0.0094	0.0239	0.0017	0.0003 E	0.0023	0.0001	0.0000	----	----	30
31	----		0.0211		0.0210		0.0005 E	0.0010		0.0000		0.0000 E	31
TOTAL	----	----	0.2302	0.6866	0.3497	0.3553	0.0179	0.1343	0.0028	0.0018	----	----	TOTAL
MEAN	----	----	0.0074	0.0229	0.0113	0.0118	0.0006	0.0043	0.0001	0.0001	----	----	MEAN
MAX	----	----	0.0229	0.0379	0.0306	0.0262	0.0020	0.0162	0.0005	0.0001	----	----	MAX
MIN	----	----	0.0026	0.0094	0.0018	0.0017	0.0001	0.0000	0.0000	0.0000	----	----	MIN

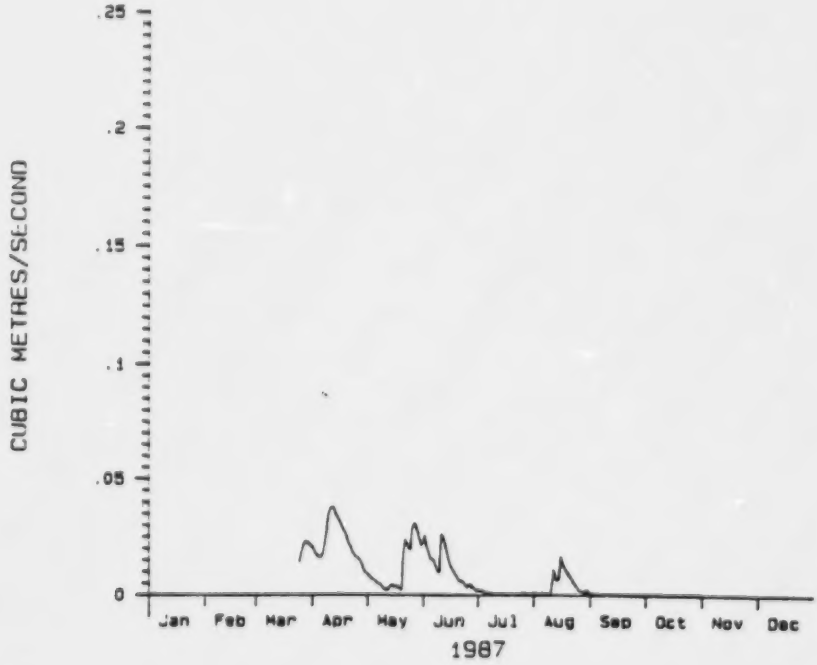
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	19889	59322	30214	30698	1547	11604	242	156	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	153671	CUBIC METRES
MEAN DISCHARGE,	0.0073	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0379	CUBIC METRES/SEC ON APR 12
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 10
MAX INSTANTANEOUS FLOW,	0.0382	CUBIC METRES/SEC ON APR 12

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.488 B	29.565	29.522	29.450	29.425	29.338	29.342	—	—	1
2	—	—	—	29.489 B	29.562	29.521	29.466	29.423	29.333	29.354	—	—	2
3	—	—	—	29.489 B	29.559	29.518	29.563	29.424	29.332	29.360	—	—	3
4	—	—	—	29.490 B	29.562	29.519	29.580	29.422	29.331	29.360	—	—	4
5	—	—	—	29.491 B	29.568	29.505	29.584	29.418	29.327	29.362	—	—	5
6	—	—	—	29.492 A	29.564	29.506	29.577	29.414	29.321	29.369	—	—	6
7	—	—	—	29.492	29.562	29.511	29.561	29.411	29.320	29.405	—	—	7
8	—	—	—	29.486	29.559	29.507	29.549	29.410	29.317	29.418	—	—	8
9	—	—	—	29.486	29.556	29.513	29.538	29.405	29.316	29.429	—	—	9
10	—	—	—	29.487	29.558	29.522	29.529	29.398	29.316	29.454	—	—	10
11	—	—	—	29.486	29.557	29.519	29.520	29.390	29.317	29.475	—	—	11
12	—	—	—	29.482	29.556	29.514	29.512	29.382	29.319	29.489	—	—	12
13	—	—	—	29.480	29.554	29.511	29.506	29.388	29.319	29.500	—	—	13
14	—	—	—	29.482	29.554	29.511	29.498	29.386	29.312	29.508	—	—	14
15	—	—	—	29.486	29.556	29.507	29.491	29.385	29.307	29.507	—	—	15
16	—	—	—	29.514	29.559	29.502	29.486	29.382	29.307	29.507	—	—	16
17	—	—	—	29.529	29.561	29.501	29.498	29.377	29.302	29.510	—	—	17
18	—	—	—	29.536	29.561	29.496	29.489	29.376	29.300	29.511	—	—	18
19	—	—	—	29.540	29.559	29.491	29.481	29.375	29.300	29.509	—	—	19
20	—	—	—	29.540	29.552	29.486	29.473	29.370	29.295	29.506	—	—	20
21	—	—	—	29.541	29.575	29.484	29.469	29.371	29.291	29.503	—	—	21
22	—	—	—	29.546	29.557	29.483	29.463	29.370	29.289	29.503	—	—	22
23	—	—	—	29.560	29.543	29.479	29.454	29.366	29.301	29.501	—	—	23
24	—	—	—	29.580	29.535	29.475	29.472	29.361	29.307	29.500	—	—	24
25	—	—	—	29.590	29.525	29.473	29.466	29.359	29.306	29.499	—	—	25
26	—	—	—	29.590	29.516	29.469	29.460	29.353	29.305	29.500	—	—	26
27	—	—	—	29.585	29.511	29.467	29.454	29.344	29.306	29.498	—	—	27
28	—	—	—	29.577	29.504	29.461	29.447	29.338	29.339	29.500	—	—	28
29	—	—	—	29.572	29.504	29.457	29.444	29.337	29.346	29.500	—	—	29
30	—	—	—	29.569	29.502	29.452	29.440	29.334	29.344	29.498	—	—	30
31	—	—	—		29.513		29.434	29.333		29.498	—	—	31
MEAN	—	—	—	29.525	29.551	29.496	29.495	29.382	29.315	29.464	—	—	MEAN
MAX	—	—	—	29.590	29.597	29.522	29.584	29.425	29.346	29.511	—	—	MAX
MIN	—	—	—	29.482	29.502	29.452	29.434	29.333	29.289	29.342	—	—	MIN

NOTES
— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ARBORED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.597 METRES ON MAY 19
MINIMUM DAILY WATER LEVEL, 29.289 METRES ON SEP 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.598 METRES AT 1451 ON MAY 19

LAKE 225
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.328	29.437	29.453	29.411	29.395	29.285	29.244	29.220	—	1
2	—	—	—	29.335	29.437	29.448	29.409	29.388	29.276	29.247	29.220	—	2
3	—	—	—	29.337	29.441	29.450	29.414	29.385	29.273	29.245	29.214 A	—	3
4	—	—	—	29.333	29.444	29.456	29.427	29.383	29.264	29.244	—	—	4
5	—	—	—	29.331	29.443	29.455	29.423	29.383	29.265	29.250	—	—	5
6	—	—	—	29.330	29.442	29.447	29.415	29.379	29.279	29.249	—	—	6
7	—	—	—	29.329	29.440	29.440	29.414	29.374	29.276	29.247	—	—	7
8	—	—	—	29.328	29.438	29.436	29.413	29.327	29.272	29.241	—	—	8
9	—	—	—	29.330	29.434	29.430	29.409	29.317	29.273	29.240	—	—	9
10	—	—	—	29.330	29.435	29.424	29.404	29.313	29.267	29.239	—	—	10
11	—	—	—	29.330	29.440	29.420	29.398	29.312	29.265	29.240	—	—	11
12	—	—	—	29.332	29.448	29.416	29.393	29.306	29.259	29.240	—	—	12
13	—	—	—	29.333	29.457	29.414	29.387	29.302	29.252	29.237	—	—	13
14	—	—	—	29.333	29.461	29.459	29.385	29.298	29.250	29.236	—	—	14
15	—	—	—	29.333	29.463	29.469	29.382	29.294	29.246	29.234	—	—	15
16	—	—	—	29.334	29.458	29.471	29.398	29.289	29.244	29.235	—	—	16
17	—	—	—	29.335	29.457	29.467	29.392	29.285	29.243	29.234	—	—	17
18	—	—	—	29.336	29.460	29.464	29.386	29.300	29.249	29.230	—	—	18
19	—	—	—	29.338	29.459	29.455	29.386	29.299	29.241	29.227	—	—	19
20	—	—	—	29.341	29.457	29.448	29.382	29.295	29.238	29.227	—	—	20
21	—	—	—	29.346	29.455	29.443	29.376	29.306	29.240	29.226	—	—	21
22	—	—	—	29.352	29.462	29.450	29.373	29.305	29.232	29.224	—	—	22
23	—	—	—	29.363	29.463	29.446	29.366	29.301	29.229	29.224	—	—	23
24	—	—	—	29.377	29.465	29.441	29.358	29.298	29.225	29.226	—	—	24
25	—	—	—	29.388	29.462	29.436	29.354	29.297	29.224	29.225	—	—	25
26	—	—	—	29.402	29.461	29.430	29.350	29.295	29.223	29.224	—	—	26
27	—	—	—	29.416	29.458	29.420	29.351	29.294	29.222	29.224	—	—	27
28	—	—	—	29.425	29.462	29.418	29.350	29.291	29.225	29.221	—	—	28
29	—	—	29.314 A	29.431	29.463	29.411	29.350	29.290	29.227	29.221	—	—	29
30	—	—	29.314	29.435	29.461	29.415	29.350	29.288	29.228	29.218	—	—	30
31	—	—	29.317		29.456		29.357	29.285		29.221	—	—	31
MEAN	—	—	—	29.353	29.452	29.441	29.386	29.309	29.250	29.234	—	—	MEAN
MAX	—	—	—	29.435	29.465	29.471	29.427	29.395	29.285	29.250	—	—	MAX
MIN	—	—	—	29.328	29.434	29.411	29.350	29.285	29.222	29.218	—	—	MIN

NOTES
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A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
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WATER LEVELS ARE RELATED TO AN ARBORED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.471 METRES ON JUN 16
MINIMUM DAILY WATER LEVEL, 29.214 METRES ON NOV 2
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.476 METRES AT 2204 ON JUN 15

LAKE ERIE
MEAN DAILY WATER LEVEL IN METRES FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.282	29.445	29.414	29.371	29.269	29.184	29.151	—	—	1
2	—	—	—	29.285	29.448	29.408	29.365	29.266	29.179	29.150	—	—	2
3	—	—	—	29.284	29.451	29.401	29.358	29.263	29.177	29.147	—	—	3
4	—	—	—	29.284	29.455	29.400	29.349	29.260	29.173	29.147	—	—	4
5	—	—	—	29.285	29.454	29.417	29.340	29.259	29.168	29.143	—	—	5
6	—	—	—	29.285	29.458	29.421	29.330	29.259	29.163	29.142	—	—	6
7	—	—	—	29.286	29.471	29.434	29.322	29.254	29.164	29.143	—	—	7
8	—	—	—	29.290	29.476	29.459	29.316	29.251	29.165	29.144	—	—	8
9	—	—	—	29.297	29.478	29.446	29.308	29.266 A	29.190	29.149	—	—	9
10	—	—	—	29.305	29.480	29.440	29.304	29.262 E	29.192	29.142	—	—	10
11	—	—	—	29.318	29.485	29.434	29.296	29.259 E	29.194	29.142	—	—	11
12	—	—	—	29.333	29.485	29.435	29.294	29.256 E	29.195	29.143	—	—	12
13	—	—	—	29.344	29.485	29.452	29.297	29.253 E	29.195	29.146	—	—	13
14	—	—	—	29.356	29.481	29.450	29.306	29.261 E	29.188	29.172	—	—	14
15	—	—	—	29.364	29.478	29.445	29.298	29.257 E	29.186	29.182	—	—	15
16	—	—	—	29.371	29.473	29.444	29.295	29.251 E	29.182	29.188	—	—	16
17	—	—	—	29.376	29.470	29.444	29.290	29.249 E	29.178	29.225	—	—	17
18	—	—	—	29.078	29.467	29.443	29.286	29.252 E	29.176	29.248	—	—	18
19	—	—	—	29.385	29.461	29.435	29.283	29.251 E	29.173	29.275	—	—	19
20	—	—	—	29.390	29.455	29.430	29.278	29.256 E	29.170	29.301	—	—	20
21	—	—	—	29.393	29.458	29.429	29.281	29.243 A	29.168	29.319	—	—	21
22	—	—	—	29.393	29.455	29.435	29.282	29.234	29.165	29.334	—	—	22
23	—	—	—	29.400	29.449	29.428	29.279	29.228	29.159	29.342	—	—	23
24	—	—	—	29.399	29.443	29.416	29.275	29.225	29.160	29.349	—	—	24
25	—	—	—	29.401	29.440	29.406	29.272	29.220	29.161	29.354	—	—	25
26	—	—	—	29.402	29.433	29.404	29.271	29.217	29.160	29.359	—	—	26
27	—	—	—	29.420	29.428	29.406	29.268	29.215	29.159	29.368	—	—	27
28	—	—	—	29.435	29.425	29.394	29.265	29.213	29.156	29.375	—	—	28
29	—		—	29.438	29.421	29.386	29.259	29.206	29.155	29.378	—	—	29
30	—		—	29.443	29.416	29.381	29.263	29.199	29.153	29.378	—	—	30
31	—		—		29.415		29.269	29.188		29.379		—	31
MEAN	—	—	—	29.343	29.456	29.424	29.299	29.243	29.173	29.259	—	—	MEAN
MAX	—	—	—	29.443	29.485	29.452	29.371	29.269	29.194	29.379	—	—	MAX
MIN	—	—	—	29.078	29.415	29.381	29.259	29.188	29.153	29.142	—	—	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.485 METRES ON MAY 12
MINIMUM DAILY WATER LEVEL, 29.141 METRES ON OCT 13
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.488 METRES AT 721 ON MAY 13

LAKE ERIE
MEAN DAILY WATER LEVEL IN METRES FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.360 E	29.432	29.394	— M	29.326	29.457	29.499	29.459	—	1
2	—	—	—	—	29.422	29.394	— M	29.320	29.460	29.498	29.458	—	2
3	—	—	—	—	29.417	29.385	— M	29.315	29.467	29.498	29.453	—	3
4	—	—	—	29.360	29.422	29.378	— M	29.321	29.471	29.495	29.449	—	4
5	—	—	—	29.360	29.431	29.370	— M	29.320	29.464	29.495	29.447	—	5
6	—	—	—	29.358	29.439	29.361	— M	29.317	29.473	29.489	—	—	6
7	—	—	—	29.358	29.451	29.357	— M	29.313	29.467	29.489	—	—	7
8	—	—	—	29.353	29.443	29.352	— M	29.307	29.459	29.509	—	—	8
9	—	—	—	29.352	29.437	29.349	— M	29.300	29.454	29.508	—	—	9
10	—	—	—	29.352	29.428	29.340	— M	29.294	29.446	29.503	—	—	10
11	—	—	—	29.353	29.441	29.334	— M	29.287	29.443	29.498	—	—	11
12	—	—	—	29.357	29.461	29.329	— M	29.294	29.436	29.499	—	—	12
13	—	—	—	29.358	29.531	29.328	— M	29.317	29.426	29.498	—	—	13
14	—	—	—	29.359	29.516	29.322	— M	29.325	29.425	29.501	—	—	14
15	—	—	—	29.364	29.504	29.323	— M	29.325	29.416	29.505	—	—	15
16	—	—	—	29.370	29.513	29.333	— M	29.318	29.415	29.501	—	—	16
17	—	—	—	29.378	29.525	29.340	29.357	29.362	29.415	29.500	—	—	17
18	—	—	—	29.384	29.526	29.338	29.367	29.387	29.412	29.499	—	—	18
19	—	—	—	29.393	29.523	29.330	29.377	29.387	29.408	29.499	—	—	19
20	—	—	—	29.405	29.513	29.324	29.366	29.395	29.522	29.497	—	—	20
21	—	—	—	29.446	29.501	29.327	29.356	29.397	29.532	29.491	—	—	21
22	—	—	—	— M	29.491	29.366	29.355	29.417	29.528	29.489	—	—	22
23	—	—	—	— M	29.477	29.369	29.379	29.447	29.527	29.488	—	—	23
24	—	—	—	— M	29.465	29.369	29.367	29.457	29.526	29.488	—	—	24
25	—	—	—	— M	29.455	29.371	— M	29.463	29.519	29.484	—	—	25
26	—	—	—	— M	29.440	29.379	— M	29.466	29.514	29.479	—	—	26
27	—	—	—	— M	29.430	29.388	— M	29.467	29.510	29.478	—	—	27
28	—	—	—	— M	29.415	— M	— M	29.465	29.508	29.473	—	—	28
29	—		—	— M	29.414	— M	— M	29.462	29.506	29.470	—	—	29
30	—		—	— M	29.407	— M	— M	29.458	29.504	29.467	—	—	30
31	—		—		29.401		— M	29.457		29.460		—	31
MEAN	—	—	—	29.369	29.480	29.354	29.366	29.371	29.473	29.492	—	—	MEAN
MAX	—	—	—	29.446	29.531	29.394	29.379	29.467	29.532	29.509	—	—	MAX
MIN	—	—	—	29.352	29.401	29.322	29.355	29.287	29.412	29.460	—	—	MIN

NOTES

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A MANUAL GAUGE READING
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M MISSING RECORD
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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.532 METRES ON SEP 21
MINIMUM DAILY WATER LEVEL, 29.287 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.534 METRES AT 1200 ON SEP 21

LAKE 225
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.256	29.495	29.325	29.284	29.299	29.234	29.226	29.201	—	
2	—	—	—	29.261	29.482	29.317	29.284	29.299	29.247	29.229	29.197	—	1
3	—	—	—	29.267	29.473	29.313	29.285	29.297	29.284	29.238	29.195 A	—	2
4	—	—	—	29.275	29.467	29.310	29.288	29.298	29.292	29.234	—	—	3
5	—	—	—	29.284	29.480	29.305	29.318	29.302	29.288	29.250	—	—	4
													5
6	—	—	—	29.295	29.477	29.300	29.323	29.300	29.282	29.227	—	—	
7	—	—	—	29.308	29.469	29.302	29.318	29.302	29.278	29.227	—	—	6
8	—	—	—	29.323	29.461	29.296	29.314	29.304	29.275	29.226	—	—	7
9	—	—	—	29.334	29.452	29.292	29.312	29.300	29.271	29.223	—	—	8
10	—	—	—	29.343	29.440	29.290	29.310	29.297	29.267	29.222	—	—	9
													10
11	—	—	—	29.353	29.431	29.287	29.315	29.292	29.265	29.223	—	—	
12	—	—	—	29.359	29.422	29.283	29.318	29.288	29.269	29.220	—	—	11
13	—	—	—	29.365	29.415	29.279	29.316	29.285	29.268	29.218	—	—	12
14	—	—	—	29.366	29.407	29.276	29.315	29.284	29.264	29.216	—	—	13
15	—	—	—	29.369	29.398	29.277	29.315	29.282	29.261	29.215	—	—	14
													15
16	—	—	—	29.371	29.391	29.276	29.314	29.291	29.256	29.213	—	—	
17	—	—	—	29.375	29.384	29.272	29.314	29.287	29.256	29.212	—	—	16
18	—	—	—	29.375	29.377	29.271	29.314	29.282	29.254	29.211	—	—	17
19	—	—	—	29.376	29.370	29.269	29.313	29.283	29.250	29.210	—	—	18
20	—	—	—	29.408	29.365	29.273	29.311	29.284	29.246	29.210	—	—	19
													20
21	—	—	—	29.411	29.361	29.280	29.309	29.280	29.243	29.210	—	—	
22	—	—	—	29.412	29.357	29.280	29.306	29.276	29.248	29.210	—	—	21
23	—	—	—	29.405	29.353	29.276	29.306	29.273	29.247	29.209	—	—	22
24	—	—	—	29.397	29.350	29.272	29.306	[illegible]298	29.243	29.208	—	—	23
25	—	—	—	29.391	29.347	29.265	29.302	29.287	29.243	29.207	—	—	24
													25
26	—	—	29.240	29.408	29.345	29.295	29.299	29.281	29.242	29.207	—	—	
27	—	—	29.241	29.416	29.343	29.294	29.309	29.254	29.244	29.207	—	—	26
28	—	—	29.242	29.465	29.340	29.291	29.310	29.248	29.241	29.207	—	—	27
29	—		29.244	29.491	29.338	29.286	29.309	29.243	29.240	29.205	—	—	28
30	—		29.248	29.489	29.332	29.284	29.305	29.239	29.240	29.202	—	—	29
31	—		29.251		29.327		29.301	29.237		29.204		—	30
													31
MEAN	—	—	—	29.365	29.402	29.288	29.308	29.281	29.[illegible]58	29.217	—	—	MEAN
MAX	—	—	—	29.491	29.495	29.325	29.325	29.304	29.292	29.279	—	—	MAX
MIN	—	—	—	29.256	29.327	29.269	29.285	29.237	29.234	29.202	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.495 METRES ON MAY 01
MINIMUM DAILY WATER LEVEL, 29.234 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.497 METRES AT 04:00 ON MAY 01

SC

LAKE 223
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	29.252	29.228	29.249	29.201	29.203	29.185	29.127	29.083	----	
2	----	----	----	29.251	29.225	29.250	29.204	29.202	29.180	29.120	29.083 A	----	1
3	----	----	----	29.247	29.221	29.244	29.202	29.199	29.176	29.114	----	----	2
4	----	----	----	29.245	29.219	29.240	29.199	29.192	29.173	29.111	----	----	3
5	----	----	----	29.245	29.216	29.235	29.196	29.188	29.171	29.112	----	----	4
													5
6	----	----	----	29.248	29.214	29.235	29.195	29.193	29.170	29.109	----	----	
7	----	----	----	29.252	29.213	29.234	29.194	29.193	29.167	29.104	----	----	6
8	----	----	----	29.259	29.211	29.230	29.190	29.190	29.165	29.103	----	----	7
9	----	----	----	29.268	29.210	29.225	29.187	29.187	29.163	29.110	----	----	8
10	----	----	----	29.275	29.207	29.223	29.182	29.183	29.161	29.107	----	----	9
													10
11	----	----	----	29.279	29.205	29.252	29.183	29.199	29.160	29.104	----	----	
12	----	----	----	29.278	29.201	29.251	29.190	29.229	29.161	29.102	----	----	11
13	----	----	----	29.277	29.208	29.247	29.189	29.224	29.160	29.099	----	----	12
14	----	----	----	29.274	29.217	29.242	29.185	29.220	29.157	29.098	----	----	13
15	----	----	----	29.271	29.215	29.236	29.185	29.221	29.156	29.096	----	----	14
													15
16	----	----	----	29.268	29.216	29.233	29.183	29.239	29.154	29.094	----	----	
17	----	----	----	29.266	29.216	29.230	29.182	29.235	29.151	29.092	----	----	16
18	----	----	----	29.264	29.212	29.227	29.181	29.229	29.149	29.091	----	----	17
19	----	----	----	29.261	29.209	29.223	29.187	29.225	29.149	29.089	----	----	18
20	----	----	----	29.258	29.208	29.220	29.188	29.221	29.147	29.090	----	----	19
													20
21	----	----	----	29.254	29.242	29.217	29.186	29.216	29.146	29.089	----	----	
22	----	----	----	29.253	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
23	----	----	----	29.247	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22
24	----	----	29.233 A	29.244	29.246	29.209	29.193	29.202	29.137	29.086	----	----	23
25	----	----	29.244	29.242	29.246	29.206	29.195	29.200	29.134	29.086	----	----	24
													25
26	----	----	29.249	29.241	29.258	29.211	29.200	29.200	29.132	29.086	----	----	
27	----	----	29.256	29.240	29.259	29.211	29.199	29.198	29.130	29.088	----	----	26
28	----	----	29.258	29.235	29.258	29.207	29.196	29.194	29.130	29.087	----	----	27
29	----		29.257	29.231	29.254	29.204	29.193	29.193	29.132	29.086	----	----	28
30	----		29.256	29.228	29.251	29.201	29.189	29.196	29.128	29.085	----	----	29
31	----		29.253		29.246		29.199	29.189		29.084		----	30
													31
MEAN	----	----	----	29.255	29.227	29.227	29.192	29.206	29.194	29.097	----	----	MEAN
MAX	----	----	----	29.279	29.259	29.252	29.204	29.239	29.185	29.127	----	----	MAX
MIN	----	----	----	29.228	29.201	29.201	29.181	29.183	29.128	29.084	----	----	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.279 METRES ON APR 11
MINIMUM DAILY WATER LEVEL, 29.083 METRES ON NOV 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.282 METRES AT 01:30 ON APR 12

LAKE 224 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0027 E	0.0064	0.0077	0.0054	0.0126	0.0027 E	0.0012	----	----	1
2	----	----	----	0.0028 E	0.0061	0.0090	0.0079	0.0126	0.0025 E	0.0020	----	----	2
3	----	----	----	0.0029 E	0.0063	0.0090	0.0147	0.0124	0.0022 E	0.0019	----	----	3
4	----	----	----	0.0030 E	0.0067	0.0083	0.0120	0.0123	0.0019 E	0.0016	----	----	4
5	----	----	----	0.0031 E	0.0063	0.0073	0.0122	0.0117	0.0016 E	0.0017	----	----	5
6	----	----	----	0.0033 A	0.0055	0.0073	0.0131	0.0116	0.0014 E	0.0019	----	----	6
7	----	----	----	0.0034	0.0058	0.0068	0.0142	0.0113	0.0012 E	0.0049	----	----	7
8	----	----	----	0.0033	0.0062	0.0053 A	0.0149	0.0109	0.0011 E	0.0044	----	----	8
9	----	----	----	0.0032	0.0070	0.0076 E	0.0150	0.0102	0.0010 A	0.0043	----	----	9
10	----	0.0010 A	----	0.0033	0.0072	0.0087 E	0.0151	0.0095	0.0009	0.0054	----	----	10
11	----	----	0.0012 A	0.0032	0.0074	0.0084 E	0.0151	0.0091	0.0009	0.0064	----	----	11
12	----	----	----	0.0033	0.0072	0.0077 E	0.0153	0.0084	0.0011	0.0066	----	----	12
13	----	----	----	0.0037	0.0068	0.0073 E	0.0158	0.0089	0.0010	0.0069	----	0.0007 A	13
14	----	----	----	0.0045	0.0064	0.0070 A	0.0159	0.0085	0.0008	0.0075	----	----	14
15	----	----	----	0.0051	0.0065	0.0072	0.0165	0.0079	0.0007	0.0076	----	0.0006 A	15
16	----	----	----	0.0073	0.0062	0.0073	0.0156	0.0072	0.0007	0.0074	----	----	16
17	----	----	----	0.0058	0.0067	0.0072	0.0172	0.0068	0.0007	0.0074	----	----	17
18	----	----	----	0.0062	0.0084	0.0071	0.0149	0.0065	0.0010	0.0075	----	----	18
19	----	----	----	0.0061	0.0058	0.0070	0.0142	0.0068	0.0012	0.0073	----	----	19
20	----	----	----	0.0054	0.0054	0.0072	0.0142	0.0061	0.0007	0.0067	----	----	20
21	----	----	----	0.0056	0.0056	0.0073	0.0141	0.0059	0.0005	0.0064	----	----	21
22	----	----	----	0.0060	0.0050	0.0074	0.0141	0.0057	0.0005	0.0060	----	----	22
23	----	----	----	0.0065	0.0038	0.0077	0.0144	0.0056 E	0.0010	0.0062	----	----	23
24	----	----	----	0.0076	0.0037	0.0077	0.0167	0.0055 E	0.0008	0.0059	----	----	24
25	----	----	----	0.0079	0.0030	0.0075	0.0153	0.0049 E	0.0007	0.0056	----	----	25
26	----	----	----	0.0081	0.0030	0.0074	0.0148	0.0043 E	0.0006	0.0056	----	----	26
27	----	----	----	0.0068	0.0025	0.0069	0.0145	0.0038 E	0.0008	0.0052	----	----	27
28	----	----	----	0.0081	0.0020	0.0066	0.0139	0.0034 E	0.0028	0.0052	----	----	28
29	----		----	0.0064	0.0050	0.0064	0.0138	0.0030 E	0.0023	0.0053	----	----	29
30	----		----	0.0061	0.0057	0.0064	0.0134	0.0026 E	0.0016	0.0051	----	----	30
31	----		----		0.0064		0.0125	0.0029 E		0.0047		0.0000 E	31
TOTAL	----	----	----	0.1507	0.1760	0.2217	0.4367	0.2389	0.0389	0.1618	----	----	TOTAL
MEAN	----	----	----	0.0050	0.0057	0.0074	0.0141	0.0077	0.0012	0.0052	----	----	MEAN
MAX	----	----	----	0.0081	0.0084	0.0090	0.0172	0.0126	0.0028	0.0076	----	----	MAX
MIN	----	----	----	0.0027	0.0020	0.0053	0.0054	0.0026	0.0005	0.0012	----	----	MIN

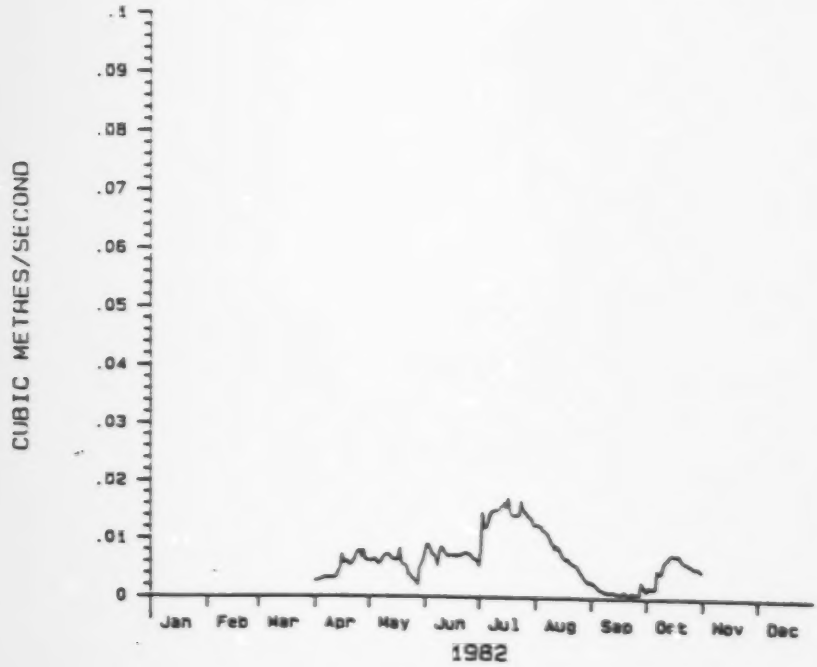
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	13020	15206	19155	37731	20641	3188	13980	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	122921	CUBIC METRES
MEAN DISCHARGE,	0.0066	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0172	CUBIC METRES/SEC ON JUL 15
MIN DAILY DISCHARGE,	0.0005	CUBIC METRES/SEC ON SEP 21
MAX INSTANTANEOUS FLOW,	0.0230	CUBIC METRES/SEC ON JUL 3

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 224 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0041	0.0060	0.0033	0.0082	0.0027 E	0.0000	0.0004	----	----	1
2	----	----	----	0.0047	0.0064	0.0034	0.0078	0.0026 E	0.0000	0.0002	----	----	2
3	----	----	----	0.0051	0.0062	0.0031	0.0090	0.0025 E	0.0000	0.0002	----	----	3
4	----	----	----	0.0049	0.0063	0.0025	0.0107	0.0025 E	0.0000	0.0001	----	----	4
5	----	----	----	0.0047	0.0061	0.0021	0.0099	0.0023 E	0.0001	0.0002	----	----	5
6	----	----	----	0.0046	0.0058	0.0018	0.0096	0.0021 E	0.0001	0.0001	----	----	6
7	----	----	----	0.0043	0.0052	0.0016 A	0.0087	0.0019 E	0.0000	0.0002	----	----	7
8	----	----	----	0.0042	0.0048	0.0015 E	0.0071	0.0016 E	0.0000 A	0.0001	----	----	8
9	----	----	----	0.0042	0.0048	0.0015 A	0.0078	0.0015 E	0.0001 E	0.0002	----	----	9
10	----	----	----	0.0040	0.0046	0.0015	0.0074	0.0013 E	0.0001 E	0.0001	----	----	10
11	----	----	----	0.0042	0.0047	0.0018	0.0067	0.0010 E	0.0001 E	0.0002	----	----	11
12	----	----	----	0.0041	0.0053	0.0018	0.0058	0.0008 E	0.0001 E	0.0002	----	----	12
13	----	----	----	0.0040	0.0062	0.0018	0.0055	0.0007 E	0.0001 E	0.0003	----	0.0000 A	13
14	----	----	----	0.0039	0.0053	0.0053	0.0051	0.0006 E	0.0001 E	0.0002	----	----	14
15	----	----	----	0.0043	0.0050	0.0045	0.0048	0.0004 E	0.0001 E	0.0003	----	----	15
16	----	----	----	0.0044	0.0046	0.0046	0.0059	0.0003 E	0.0001 E	0.0002	----	----	16
17	----	----	----	0.0043	0.0045	0.0046	0.0059	0.0002 E	0.0001 E	0.0003	----	----	17
18	----	----	----	0.0046	0.0046	0.0044	0.0055	0.0001 E	0.0001 E	0.0001	----	----	18
19	----	----	----	0.0050	0.0044	0.0046	0.0055	0.0001 E	0.0002 A	0.0001	----	----	19
20	----	----	----	0.0048	0.0042	0.0046	0.0054 A	0.0001 E	0.0002 E	0.0001	----	----	20
21	----	----	----	0.0059	0.0043	0.0046	0.0051 E	0.0001 E	0.0001 E	0.0001	----	----	21
22	----	----	----	0.0059	0.0049	0.0056	0.0045 E	0.0001 E	0.0001 E	0.0001	----	----	22
23	----	----	----	0.0060	0.0047	0.0080	0.0042 E	0.0001 E	0.0001 E	0.0001	----	----	23
24	----	----	----	0.0068	0.0047	0.0080	0.0039 E	0.0001 E	0.0000 E	0.0001	----	----	24
25	----	----	----	0.0069	0.0045	0.0090	0.0034 E	0.0001 E	0.0000 E	0.0002	----	----	25
26	----	----	----	0.0071	0.0043	0.0094	0.0031 E	0.0000 E	0.0000 E	0.0002	----	----	26
27	----	----	----	0.0067	0.0044	0.0088	0.0030 E	0.0000 E	0.0001 A	0.0002	----	----	27
28	----	----	----	0.0057	0.0038	0.0083	0.0030 E	0.0000 E	0.0000	0.0002	----	----	28
29	----		----	0.0051	0.0035	0.0077	0.0030 E	0.0000 E	0.0000	0.0003	----	----	29
30	----		----	0.0054	0.0033	0.0082	0.0029 E	0.0000 A	0.0001	0.0003	----	----	30
31	----		----		0.0033		0.0028 E	0.0000		0.0003		0.0000 E	31
TOTAL	----	----	----	0.1499	0.1507	0.1379	0.1812	0.0258	0.0021	0.0059	----	----	TOTAL
MEAN	----	----	----	0.0050	0.0049	0.0046	0.0058	0.0008	0.0001	0.0002	----	----	MEAN
MAX	----	----	----	0.0071	0.0064	0.0094	0.0107	0.0027	0.0002	0.0004	----	----	MAX
MIN	----	----	----	0.0039	0.0033	0.0015	0.0028	0.0000	0.0000	0.0001	----	----	MIN

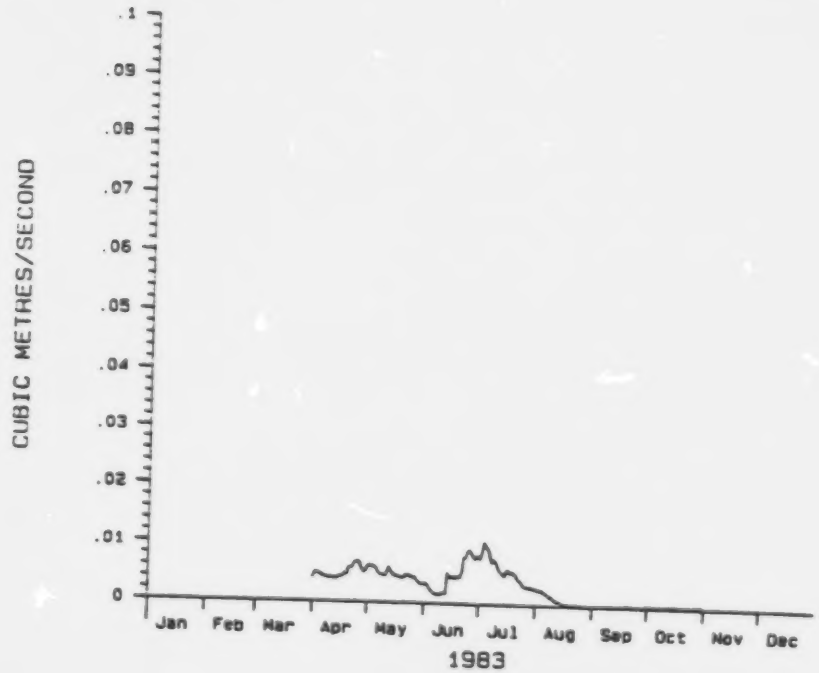
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	12951	13020	11915	15656	2229	181	510	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	56462	CUBIC METRES	
MEAN DISCHARGE,	0.0031	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0107	CUBIC METRES/SEC	ON JUL 4
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON AUG 26
MAX INSTANTANEOUS FLOW,	0.0111	CUBIC METRES/SEC	ON JUL 4

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 224 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000 E	0.0000	0.0000	0.0017	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0000 A	0.0000	0.0000	0.0015	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0000	0.0000	0.0000	0.0015	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0000 A	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0000 E	0.0000	0.0003	0.0012	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0000 E	0.0000	0.0001	0.0009	0.0000	0.0000	0.0000	----	----	6
7	----	0.0000 A	0.0000 A	0.0000 E	0.0001	0.0006	0.0007	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0000 E	0.0001	0.0008	0.0006	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0000 E	0.0000	0.0013	0.0005	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0000 A	0.0000	0.0009	0.0003	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0000	0.0001	0.0007	0.0002	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0000	0.0000	0.0008	0.0002	0.0000	0.0000	0.0000	----	0.0000 A	12
13	----	----	----	0.0000	0.0000	0.0021	0.0003	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0000	0.0000	0.0018	0.0006	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0000	0.0000	0.0016	0.0004	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0000	0.0000	0.0017	0.0004	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0000	0.0000	0.0020	0.0004	0.0000	0.0000	0.0010	----	----	17
18	----	----	----	0.0000	0.0000	0.0020	0.0003	0.0000	0.0000	0.0002	----	----	18
19	----	----	----	0.0000	0.0000	0.0016	0.0002	0.0000	0.0000	0.0004	----	----	19
20	----	----	----	0.0000	0.0000	0.0015	0.0001	0.0000	0.0000	0.0004	----	----	20
21	----	----	----	0.0000	0.0001	0.0018	0.0001	0.0000	0.0000	0.0002	----	----	21
22	----	----	----	0.0000	0.0000	0.0027	0.0001	0.0000	0.0000	0.0002	----	----	22
23	----	----	----	0.0000	0.0000	0.0024	0.0001	0.0000	0.0000	0.0000	----	----	23
24	----	----	----	0.0000	0.0000	0.0021	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	----	0.0000	0.0000	0.0020	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	----	0.0000	0.0000	0.0022	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	----	0.0002	0.0000	0.0030	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	----	0.0004	0.0000	0.0027	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		----	0.0000	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		----	0.0000	0.0000	0.0020	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		----		0.0000		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.0006	0.0004	0.0430	0.0136	0.0000	0.0000	0.0024	----	----	TOTAL
MEAN	----	----	----	0.0000	0.0000	0.0014	0.0004	0.0000	0.0000	0.0001	----	----	MEAN
MAX	----	----	----	0.0004	0.0001	0.0030	0.0017	0.0000	0.0000	0.0010	----	----	MAX
MIN	----	----	----	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

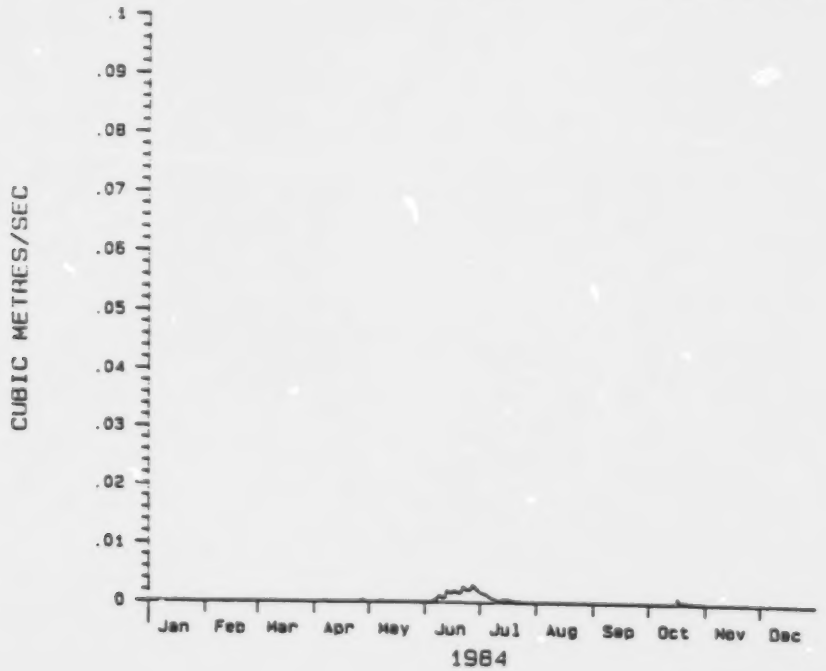
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	52	35	3715	1175	0	0	207	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	5184	CUBIC METRES
MEAN DISCHARGE,	0.0003	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0030	CUBIC METRES/SEC ON JUN 27
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON APR 1
MAX INSTANTANEOUS FLOW,	0.0860	CUBIC METRES/SEC ON JUN 27

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 224 OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0000 E	0.0443	0.0270	0.0115	0.0039	0.0084	0.0099	0.0043	—	1
2	—	—	—	0.0000 E	0.0430	0.0248	0.0106	0.0039	0.0089	0.0094	0.0042	—	2
3	—	—	—	0.0000 A	0.0435	0.0227	0.0104	0.0040	0.0092	0.0094	0.0078	—	3
4	—	—	—	0.0000	0.0448	0.0216	0.0094	0.0045	0.0094	0.0089	0.0027	—	4
5	—	—	—	0.0000	0.0448	0.0197	0.0089	0.0043	0.0084	0.0084	0.0035	—	5
6	—	—	—	0.0000	0.0452	0.0172	0.0084	0.0047	0.0085	0.0081	—	—	6
7	—	—	—	0.0000	0.0443	0.0153	0.0077	0.0041	0.0077	0.0079	—	—	7
8	—	—	—	0.0000	0.0439	0.0140	0.0074	0.0038	0.0072	0.0097	—	—	8
9	—	—	—	0.0000	0.0414	0.0117	0.0068	0.0036	0.0065	0.0097	—	—	9
10	—	—	—	0.0000	0.0414	0.0102	0.0061	0.0033	0.0063	0.0094	—	0.0019 A	10
11	—	—	—	0.0000 A	0.0439	0.0092	0.0059	0.0031	0.0056	0.0097	—	—	11
12	—	—	—	0.0000	0.0549	0.0087	0.0055	0.0099	0.0053	0.0097	—	—	12
13	—	—	—	0.0000	0.0632	0.0086	0.0055	0.0052	0.0051	0.0094	—	—	13
14	—	—	—	0.0000	0.0621	0.0079	0.0056	0.0047	0.0051	0.0087	—	—	14
15	—	—	—	0.0000	0.0632	0.0079	0.0052	0.0041	0.0047	0.0085	—	—	15
16	—	—	—	0.0000 A	0.0665	0.0094	0.0048	0.0038	0.0044	0.0083	—	—	16
17	—	—	—	0.0000	0.0654	0.0095	0.0047	0.0094	0.0042	0.0081	—	—	17
18	—	—	—	0.0000	0.0654	0.0087	0.0060	0.0065	0.0041	0.0079	—	—	18
19	—	0.0000 A	0.0000 A	0.0000	0.0605	0.0087	0.0065	0.0064	0.0140	0.0078	—	—	19
20	—	—	—	0.0016	0.0550	0.0087	0.0058	0.0064	0.0117	0.0074	—	—	20
21	0.0000 A	—	—	0.0150	0.0530	0.0089	0.0051	0.0065	0.0127	0.0072	—	—	21
22	—	—	—	0.0251	0.0497	0.0135	0.0048	0.0092	0.0131	0.0069	—	—	22
23	—	—	—	0.0314	0.0465	0.0113	0.0074	0.0095	0.0133	0.0068	—	—	23
24	—	—	—	0.0347	0.0418	0.0110	0.0061	0.0095	0.0133	0.0067	—	—	24
25	—	—	—	0.0393	0.0389	0.0108	0.0055	0.0097	0.0131	0.0063	—	—	25
26	—	—	—	0.0414	0.0354	0.0108	0.0052	0.0097	0.0127	0.0058	—	—	26
27	—	—	—	0.0430	0.0328	0.0115	0.0048	0.0097	0.0125	0.0056	—	—	27
28	—	—	—	0.0439	0.0300	0.0129	0.0048	0.0095	0.0125	0.0054	—	—	28
29	—	—	—	0.0439	0.0310	0.0127	0.0045	0.0092	0.0119	0.0052	—	—	29
30	—	—	—	0.0435	0.0300	0.0125	0.0044	0.0090	0.0113	0.0049	—	—	30
31	—	—	—		0.0280		0.0040	0.0090		0.0045		0.0005 E	31
TOTAL	—	—	—	0.3628	1.4578	0.3870	0.1993	0.2001	0.2709	0.2415	—	—	TOTAL
MEAN	—	—	—	0.0121	0.0469	0.0129	0.0064	0.0065	0.0090	0.0078	—	—	MEAN
MAX	—	—	—	0.0439	0.0665	0.0270	0.0115	0.0099	0.0140	0.0099	—	—	MAX
MIN	—	—	—	0.0000	0.0280	0.0079	0.0040	0.0031	0.0041	0.0045	—	—	MIN

MONTHLY DISCHARGES IN CUBIC METRES

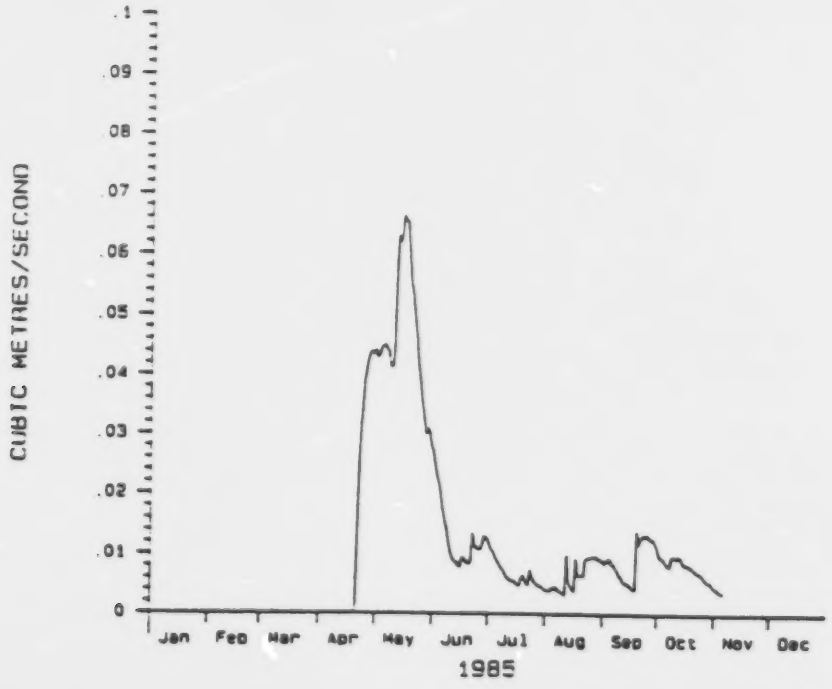
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	31346	125608	33437	17220	17289	23406	20866	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	269171	CUBIC METRES
MEAN DISCHARGE.	0.0145	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0665	CUBIC METRES/SEC ON MAY 16
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON APR 01
MAX INSTANTANEOUS FLOW.	0.0744	CUBIC METRES/SEC ON MAY 12

NOTE: AN ESTIMATED CORRECTION VALUE OF 0.0005 CUBIC METRES/SEC HAS BEEN APPLIED TO ALL DATA FROM APR 30 - DEC 31/85, TO CORRECT FOR LEAKAGE

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 224 OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0005 E	—	—	0.0023	0.0194	0.0065	0.0042	—	— M	0.0004	0.0000	—	1
2	—	—	—	0.0020	0.0185	0.0062	0.0042	—	— M	0.0007	0.0000	—	2
3	—	—	—	0.0024	0.0180	0.0059	0.0042	—	— M	0.0006	0.0000 A	—	3
4	—	—	—	0.0025	0.0178	0.0052	0.0045	—	— M	0.0005	—	—	4
5	—	—	0.0005 A	0.0026	0.0204	0.0045	0.0075	—	— M	0.0004	—	—	5
6	—	—	—	0.0030	0.0194	0.0039	0.0055	0.0024 A	— M	0.0004	—	—	6
7	—	—	—	0.0032	0.0190	0.0030	0.0053	— M	— M	0.0004	—	—	7
8	—	—	—	0.0033	0.0190	0.0027	0.0052	— M	— M	0.0003	—	—	8
9	—	—	—	0.0033	0.0191	0.0022	0.0050	— M	0.0004 A	0.0003	—	0.0002 A	9
10	—	—	—	0.0035	0.0191	0.0019	0.0050	— M	0.0003 A	0.0003	—	—	10
11	—	—	—	0.0034	0.0196	0.0016	0.0055	— M	— M	0.0003	—	—	11
12	—	—	—	0.0036	0.0191	0.0013	0.0052	— M	— M	0.0002	—	—	12
13	—	—	—	0.0036	0.0186	0.0011	0.0049	— M	— M	0.0002	—	—	13
14	—	—	—	0.0039	0.0181	0.0009	0.0049	— M	— M	0.0001	—	—	14
15	—	—	—	0.0039	0.0176	0.0009	0.0049	— M	— M	0.0001	—	—	15
16	—	—	—	0.0037	0.0175	0.0008	0.0048	— M	0.0001 A	0.0001	—	—	16
17	—	—	—	0.0034	0.0169	0.0007	0.0048	— M	0.0004	0.0000	—	—	17
18	—	0.0005 A	—	0.0033	0.0152	0.0027	0.0048	— M	0.0003	0.0000	—	—	18
19	—	—	—	0.0032	0.0145	0.0029	0.0046 A	— M	0.0004	0.0000	—	—	19
20	—	—	—	0.0032	0.0135	0.0035	— M	— M	0.0003	0.0000	—	—	20
21	0.0005 A	—	—	0.0032	0.0098	0.0034	— M	— M	0.0003	0.0001	—	—	21
22	—	—	—	0.0030	0.0113	0.0031	— M	— M	0.0006	0.0001	—	—	22
23	—	—	—	0.0029	0.0113	0.0029	— M	— M	0.0005	0.0000	—	—	23
24	—	—	—	0.0028	0.0108	0.0030	— M	— M	0.0003	0.0000	—	—	24
25	—	—	0.0010 A	0.0030	0.0108	0.0040	— M	— M	0.0005	0.0000	—	—	25
26	—	—	0.0010	0.0032	0.0099	0.0040	— M	— M	0.0004	0.0000	—	—	26
27	—	—	0.0011	0.0028	0.0087	0.0038	— M	— M	0.0006	0.0000	—	—	27
28	—	—	0.0014	0.0032	0.0081	0.0037	— M	— M	0.0005	0.0000	—	—	28
29	—	—	0.0020	0.0163	0.0079	0.0037	— M	— M	0.0005	0.0000	—	—	29
30	—	—	0.0022	0.0170	0.0075	0.0040	— M	— M	0.0005	0.0000	—	—	30
31	—	—	0.0024		0.0070		— M	— M		0.0000		0.0001 E	31
TOTAL	—	—	—	0.1567	0.4634	0.0940	—	—	—	0.0055	—	—	TOTAL
MEAN	—	—	—	0.0052	0.0149	0.0031	—	—	—	0.0002	—	—	MEAN
MAX	—	—	—	0.0170	0.0204	0.0065	—	—	—	0.0007	—	—	MAX
MIN	—	—	—	0.0020	0.0070	0.0007	—	—	—	0.0000	—	—	MIN

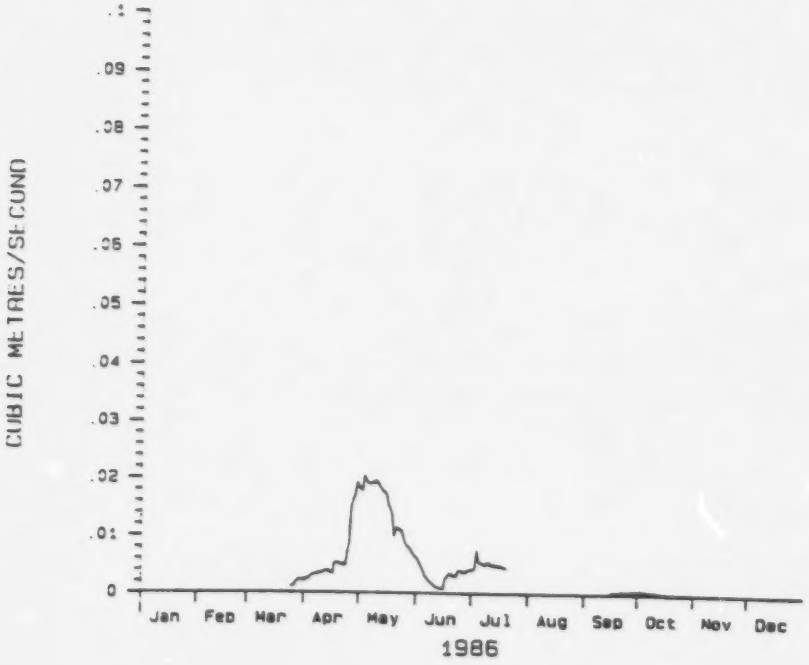
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	13539	40038	8122	—	—	—	475	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE, *	74510	CUBIC METRES
MEAN DISCHARGE,	0.0040	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0204	CUBIC METRES/SEC ON MAY 05
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON OCT 17
MAX INSTANTANEOUS FLOW,	0.0214	CUBIC METRES/SEC ON MAY 05

A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
* TOTAL DISCHARGE REPORTED INCLUDES AN ESTIMATE OF 7195 CUBIC METRES FOR THE MISSING PERIOD, JUL 20 TO SEP 15



LAKE 224 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0013	0.0025	0.0059	0.0014	0.0007	0.0000	0.0000	0.0000	----	1
2	----	----	0.0000 E	0.0014	0.0024	0.0057	0.0016	0.0006	0.0000	0.0000	0.0000 A	----	2
3	----	----	0.0000 E	0.0014	0.0020	0.0050	0.0014	0.0005	0.0000	0.0000	----	----	3
4	----	----	0.0000 E	0.0016	0.0018	0.0048	0.0012	0.0004	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0020	0.0018	0.0044	0.0012	0.0003	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0021	0.0016	0.0044	0.0011	0.0005	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0022	0.0015	0.0043	0.0011	0.0003	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0023	0.0014	0.0040	0.0009	0.0002	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0025	0.0011	0.0037	0.0008	0.0002	0.0000	0.0000	----	----	9
10	----	----	0.0000 E	0.0027	0.0010	0.0039	0.0008	0.0001	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0029	0.0009	0.0069	0.0007	0.0023	0.0000	0.0000	----	----	11
12	----	----	0.0000 E	0.0031	0.0008	0.0057	0.0012	0.0020	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0033	0.0016	0.0055	0.0008	0.0014	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0035	0.0013	0.0052	0.0007	0.0011	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0038	0.0011	0.0049	0.0008	0.0019	0.0000	0.0000	----	----	15
16	----	----	0.0000 E	0.0038	0.0013	0.0047	0.0007	0.0028	0.0000	0.0000	----	----	16
17	----	0.0000 A	0.0000 E	0.0039	0.0012	0.0046	0.0006	0.0021	0.0000	0.0000	----	0.0000 A	17
18	----	----	0.0000 E	0.0040	0.0009	0.0043	0.0005	0.0018	0.0000	0.0000	----	----	18
19	----	----	0.0000 E	0.0040	0.0008	0.0039	0.0008	0.0014	0.0000	0.0000	----	----	19
20	----	----	0.0000 E	0.0041	0.0008	0.0036	0.0006	0.0012	0.0000	0.0000	----	----	20
21	0.0000 A	----	0.0000 E	0.0039	0.0052	0.0033	0.0006	0.0010	0.0000	0.0000	----	----	21
22	----	----	0.0003 E	0.0041	0.0038	0.0031	0.0009	0.0008	0.0000	0.0000	----	----	22
23	----	----	0.0007 E	0.0039	0.0033	0.0028	0.0007	0.0007	0.0000	0.0000	----	----	23
24	----	----	0.0010 A	0.0037	0.0032	0.0025	0.0006	0.0005	0.0000	0.0000	----	----	24
25	----	----	0.0009	0.0036	0.0032	0.0022	0.0008	0.0003	0.0000	0.0000	----	----	25
26	----	----	0.0011	0.0034	0.0049	0.0026	0.0007	0.0002	0.0000	0.0000	----	----	26
27	----	----	0.0013	0.0031	0.0049	0.0021	0.0005	0.0001	0.0000	0.0000	----	----	27
28	----	----	0.0014	0.0030	0.0050	0.0018	0.0004	0.0001	0.0000	0.0000	----	----	28
29	----		0.0014	0.0026	0.0053	0.0016	0.0003	0.0001	0.0000	0.0000	----	----	29
30	----		0.0014	0.0025	0.0052	0.0014	0.0002	0.0002	0.0000	0.0000	----	----	30
31	----		0.0013		0.0050		0.0009	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.0108	0.0897	0.0768	0.1188	0.0255	0.0258	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0003	0.0030	0.0025	0.0040	0.0008	0.0008	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0014	0.0041	0.0053	0.0069	0.0016	0.0028	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0000	0.0013	0.0008	0.0014	0.0002	0.0000	0.0000	0.0000	----	----	MIN

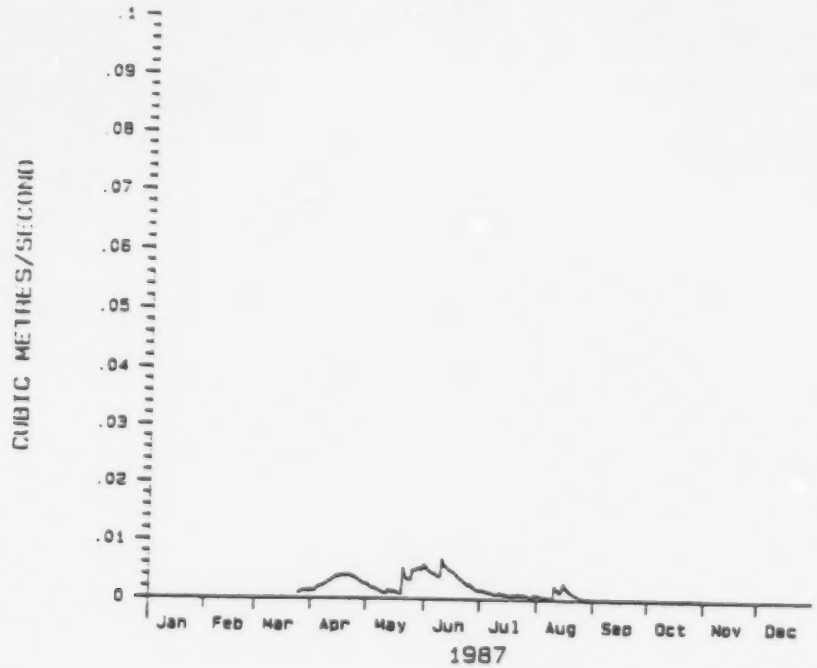
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	933	7750	6636	10264	2203	2229	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	30015	CUBIC METRES
MEAN DISCHARGE.	0.0014	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0069	CUBIC METRES/SEC ON JUN 11
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON AUG 31
MAX INSTANTANEOUS FLOW.	0.0123	CUBIC METRES/SEC ON JUN 11

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000	0.0072	0.0022	0.0000	0.0007	0.0000	0.0000	----	----	1
2	----	----	----	0.0000	0.0068	0.0023	0.0010	0.0011	0.0000	0.0002	----	----	2
3	----	----	----	0.0000	0.0059	0.0018	0.0090	0.0010	0.0000	0.0004	----	----	3
4	----	----	----	0.0000	0.0061	0.0014	0.0147	0.0006	0.0000	0.0003	----	----	4
5	----	----	----	0.0000	0.0066	0.0013	0.0149	0.0003	0.0000	0.0001	----	----	5
6	----	----	----	0.0000	0.0058	0.0011	0.0146	0.0003	0.0000	0.0002	----	----	6
7	----	----	----	0.0000 A	0.0054	0.0015	0.0112	0.0003	0.0000	0.0038	----	----	7
8	----	----	----	0.0000	0.0051	0.0014	0.0087	0.0003	0.0000	0.0045	----	----	8
9	----	----	----	0.0000	0.0046	0.0016	0.0071	0.0002	0.0000	0.0045	----	----	9
10	----	0.0000 A	----	0.0000	0.0038	0.0019	0.0058	0.0001	0.0000	0.0057	----	----	10
11	----	----	----	0.0000	0.0039	0.0018	0.0048	0.0001	0.0000	0.0069	----	----	11
12	----	----	----	0.0000	0.0035	0.0015	0.0041	0.0001	0.0000	0.0074	----	----	12
13	----	----	----	0.0000	0.0032	0.0014	0.0033	0.0001	0.0000	0.0072	----	0.0000 A	13
14	----	----	----	0.0001	0.0030	0.0014	0.0027	0.0000	0.0000	0.0062	----	----	14
15	----	----	----	0.0002	0.0029	0.0013	0.0023	0.0000	0.0000	0.0056	----	----	15
16	----	----	----	0.0025	0.0029	0.0012	0.0021	0.0000	0.0000	0.0048	----	----	16
17	----	----	----	0.0059	0.0032	0.0012	0.0034	0.0000	0.0000	0.0043	----	----	17
18	----	----	----	0.0059	0.0047	0.0011	0.0039	0.0000	0.0000	0.0039	----	----	18
19	----	----	----	0.0058	0.0055	0.0010	0.0035	0.0000	0.0000	0.0035	----	----	19
20	----	----	----	0.0055	0.0056	0.0009	0.0027	0.0000	0.0000	0.0029	----	----	20
21	----	----	----	0.0053	0.0056	0.0008	0.0031	0.0000	0.0000	0.0026	----	----	21
22	----	----	----	0.0051	0.0051	0.0008	0.0023	0.0000	0.0000	0.0023	----	----	22
23	----	----	----	0.0077	0.0045	0.0007	0.0017	0.0000	0.0000	0.0021	----	----	23
24	----	----	----	0.0115	0.0038	0.0005	0.0038	0.0000	0.0000	0.0019	----	----	24
25	----	----	----	0.0133	0.0032	0.0004	0.0036	0.0000	0.0000	0.0018	----	----	25
26	----	----	----	0.0131	0.0028	0.0003	0.0038	0.0000	0.0000	0.0018	----	----	26
27	----	----	----	0.0114	0.0024	0.0002	0.0027	0.0000	0.0000	0.0014	----	----	27
28	----	----	----	0.0101	0.0020	0.0002	0.0019	0.0000	0.0000	0.0013	----	----	28
29	----		----	0.0085	0.0017	0.0001	0.0016	0.0000	0.0001	0.0014	----	----	29
30	----		----	0.0074	0.0015	0.0001	0.0013	0.0000	0.0000	0.0015	----	----	30
31	----		----		0.0017		0.0010	0.0000		0.0014		0.0000 E	31
TOTAL	----	----	----	0.1193	0.1300	0.0334	0.1466	0.0052	0.0001	0.0917	----	----	TOTAL
MEAN	----	----	----	0.0040	0.0042	0.0011	0.0047	0.0002	.0000	0.0030	----	----	MEAN
MAX	----	----	----	0.0133	0.0072	0.0023	0.0149	0.0011	0.0001	0.0074	----	----	MAX
MIN	----	----	----	0.0000	0.0015	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	MIN

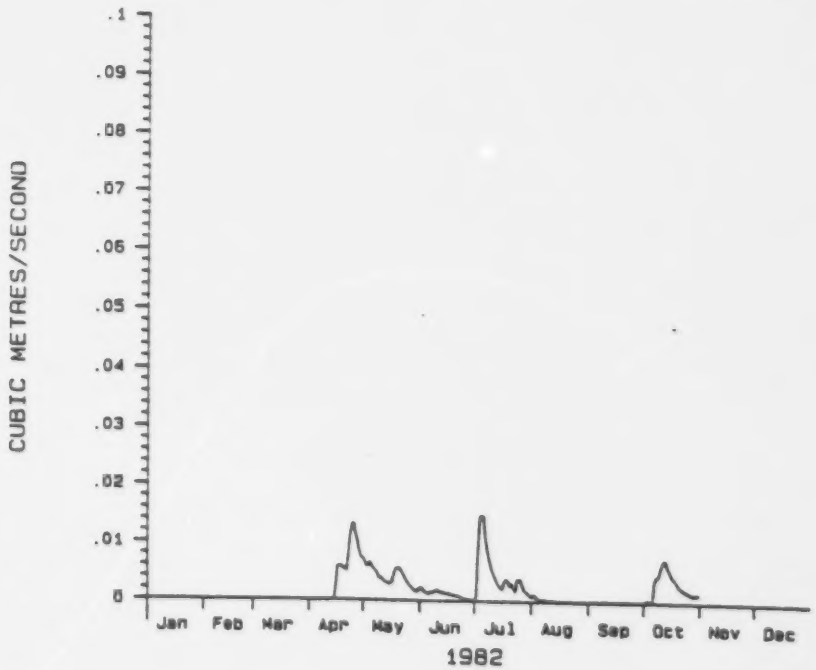
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	10308	11232	2886	12666	449	9	7923	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	45472	CUBIC METRES	
MEAN DISCHARGE.	0.0024	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.0149	CUBIC METRES/SEC ON	JUL 4
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON	APR 1
MAX INSTANTANEOUS FLOW.	0.0162	CUBIC METRES/SEC ON	JUL 6

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000	0.0005	0.0010	0.0011	0.0001	0.0000	0.0000	----	----	1
2	----	----	----	0.0000	0.0004	0.0008	0.0009	0.0001	0.0000	0.0000	----	----	2
3	----	----	----	0.0000	0.0004	0.0007	0.0014	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0000	0.0005	0.0007	0.0026	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0000	0.0004	0.0007	0.0023	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0000	0.0004	0.0007	0.0018	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0000	0.0003	0.0007	0.0016	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0000	0.0002	0.0006	0.0013	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0000	0.0004	0.0005	0.0010	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0000	0.0004	0.0004	0.0010	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0000	0.0003	0.0003	0.0012	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0000	0.0005	0.0003	0.0008	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0000	0.0004	0.0002	0.0006	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0000	0.0005	0.0015	0.0004	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0000	0.0006	0.0020	0.0003	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0000	0.0006	0.0021	0.0006	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0000	0.0006	0.0071	0.0005	0.0000	0.0000	0.0000	----	----	17
18	----	----	----	0.0000	0.0008	0.0065	0.0004	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0000	0.0011	0.0051	0.0003	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0010	0.0011	0.0039	0.0002	0.0000	0.0000	0.0000	----	----	20
21	----	----	----	0.0048	0.0013	0.0032	0.0002	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0028	0.0023	0.0037	0.0001	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0018	0.0025	0.0035	0.0001	0.0000	0.0000	0.0000	----	----	23
24	----	----	----	0.0016	0.0023	0.0031	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	----	0.0015	0.0023	0.0031	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	----	0.0018	0.0022	0.0028	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	----	0.0016	0.0019	0.0020	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	----	0.0014	0.0014	0.0013	0.0001	0.0000	0.0000	0.0000	----	----	28
29	----		----	0.0010	0.0012	0.0011	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		----	0.0008	0.0012	0.0012	0.0001	0.0000	0.0000	0.0000	----	----	30
31	----		----		0.0011		0.0001	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.0201	0.0301	0.0609	0.0210	0.0002	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0007	0.0010	0.0020	0.0007	.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0048	0.0025	0.0071	0.0026	0.0001	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0000	0.0002	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	MIN

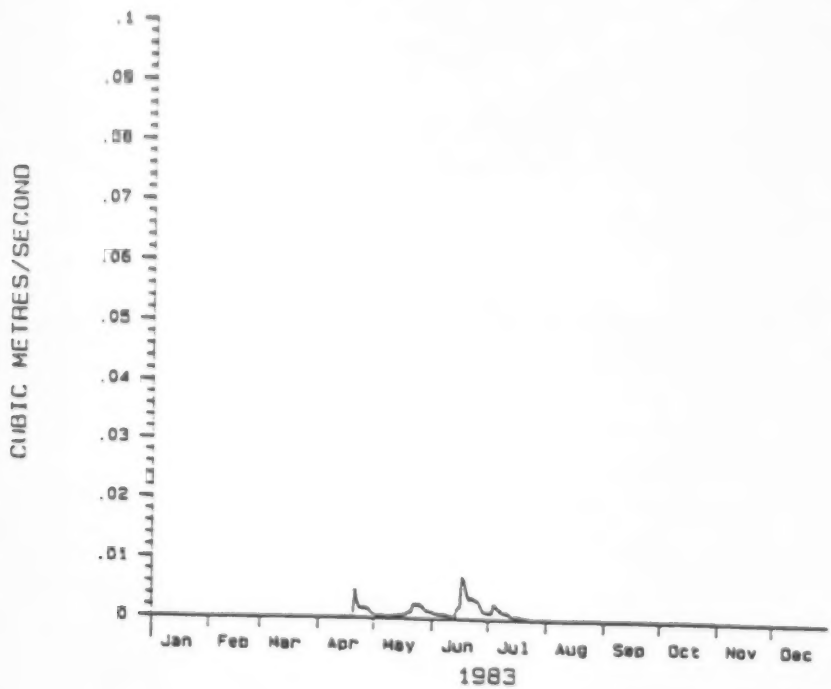
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	1737	2601	5262	1814	17	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	11431	CUBIC METRES	
MEAN DISCHARGE,	0.0006	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0071	CUBIC METRES/SEC ON	JUN 17
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	APR 1
MAX INSTANTANEOUS FLOW,	0.0117	CUBIC METRES/SEC ON	APR 21

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000 E	0.0018	0.0002	0.0005	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0000 A	0.0016	0.0002	0.0004	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0000	0.0015	0.0001	0.0003	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0000	0.0012	0.0001	0.0002	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0000	0.0008	0.0005	0.0002	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0000	0.0007	0.0004	0.0001	0.0000	0.0000	0.0000	----	----	6
7	----	0.0000 A	0.0000 A	0.0000	0.0013	0.0008	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0001	0.0020	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0001	0.0019	0.0028	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0001	0.0020	0.0026	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0001	0.0020	0.0021	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0001	0.0020	0.0021	0.0000	0.0000	0.0000	0.0000	----	0.0009 A	12
13	----	----	----	0.0000	0.0017	0.0031	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0000	0.0016	0.0027	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0001	0.0019	0.0024	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0002	0.0015	0.0023	0.0000	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0003	0.0014	0.0022	0.0000	0.0000	0.0000	0.0000	----	----	17
18	----	----	----	0.0003	0.0013	0.0019	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0004	0.0013	0.0016	0.0000	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0004	0.0012	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	20
21	----	----	----	0.0002	0.0013	0.0013	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0002	0.0013	0.0017	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0003	0.0011	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	----	0.0001	0.0010	0.0013	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	----	0.0002	0.0008	0.0010	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	----	0.0003	0.0007	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	----	0.0020	0.0004	0.0015	0.0000	0.0000	0.0000	0.0001	----	----	27
28	----	----	----	0.0024	0.0004	0.0012	0.0000	0.0000	0.0000	0.0002	----	----	28
29	----		----	0.0026	0.0004	0.0009	0.0000	0.0000	0.0000	0.0002	----	----	29
30	----		----	0.0022	0.0003	0.0007	0.0000	0.0000	0.0000	0.0003 E	----	----	30
31	----		----		0.0002		0.0000	0.0000	0.0000	0.0003 A		0.0000 E	31
TOTAL	----	----	----	0.0127	0.0386	0.0431	0.0017	0.0000	0.0000	0.0011	----	----	TOTAL
MEAN	----	----	----	0.0004	0.0012	0.0014	0.0001	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0026	0.0020	0.0031	0.0005	0.0000	0.0000	0.0003	----	----	MAX
MIN	----	----	----	0.0000	0.0002	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	MIN

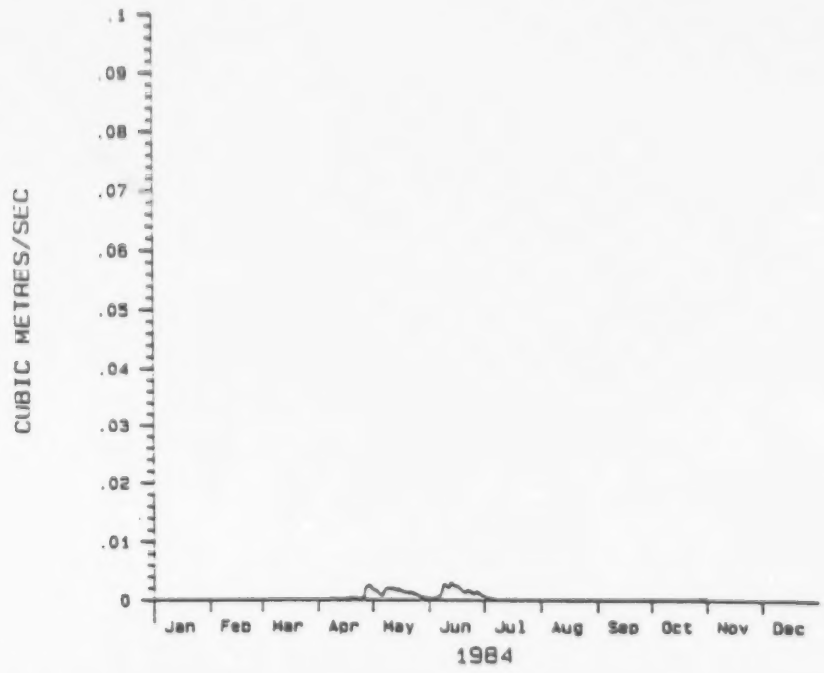
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	1097	3335	3724	147	0	0	95	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	8398	CUBIC METRES
MEAN DISCHARGE,	0.0005	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0031	CUBIC METRES/SEC ON JUN 13
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON APR 3
MAX INSTANTANEOUS FLOW,	0.0034	CUBIC METRES/SEC ON JUN 13

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0000 E	0.0081	0.0001	0.0005	0.0001	0.0013	0.0012	0.0007	—	1
2	—	—	—	0.0000 E	0.0066	0.0001	0.0005	0.0001	0.0012	0.0025	0.0007	—	2
3	—	—	—	0.0000 A	0.0058	0.0001	0.0005	0.0001	0.0022	0.0024	0.0007	—	3
4	—	—	—	0.0000	0.0066	0.0001	0.0005	0.0002	0.0022	0.0022	0.0007	—	4
5	—	—	—	0.0000	0.0070	0.0001	0.0004	0.0002	0.0018	0.0024	0.0006	—	5
6	—	—	—	0.0000	0.0080	0.0001	0.0004	0.0002	0.0012	0.0026	—	—	6
7	—	—	—	0.0000	0.0100	0.0001	0.0004	0.0001	0.0001	0.0029	—	—	7
8	—	—	—	0.0000	0.0092	0.0002	0.0003	0.0001	0.0008	0.0038	—	—	8
9	—	—	—	0.0000	0.0081	0.0002	0.0004	0.0002	0.0026	0.0029	—	—	9
10	—	—	—	0.0000	0.0072	0.0002	0.0003	0.0002	0.0006	0.0025	—	0.0004 A	10
11	—	—	—	0.0000	0.0079	0.0001	0.0003	0.0003	0.0005	0.0024	—	—	11
12	—	—	—	0.0000	0.0160	0.0002	0.0003	0.0005	0.0005	0.0026	—	—	12
13	—	—	—	0.0000	0.0345	0.0001	0.0003	0.0003	0.0003	0.0021	—	—	13
14	—	—	—	0.0000	0.0295	0.0002	0.0003	0.0003	0.0004	0.0019	—	—	14
15	—	—	—	0.0000	0.0228	0.0003	0.0003	0.0002	0.0006	0.0017	—	—	15
16	—	—	—	0.0001	0.0256	0.0003	0.0003	0.0003	0.0005	0.0017	—	—	16
17	—	—	—	0.0001	0.0221	0.0002	0.0003	0.0011	0.0003	0.0032	—	—	17
18	—	—	—	0.0001	0.0163	0.0001	0.0004	0.0115	0.0002	0.0007	—	—	18
19	—	0.0000 A	0.0000 A	0.0002	0.0130	0.0001	0.0003	0.0189	0.0108	0.0025	—	—	19
20	—	—	—	0.0014	0.0109	0.0001	0.0002	0.0205	0.0188	0.0024	—	—	20
21	0.0000 A	—	—	0.0055	0.0082	0.0002	0.0002	0.0177	0.0179	0.0021	—	—	21
22	—	—	—	0.0587	0.0062	0.0008	0.0002	0.0160	0.0152	0.0019	—	—	22
23	—	—	—	0.0380	0.0052	0.0006	0.0003	0.0146	0.0127	0.0016	—	—	23
24	—	—	—	0.0342	0.0023	0.0006	0.0002	0.0132	0.0105	0.0014	—	—	24
25	—	—	—	0.0296	0.0002	0.0005	0.0002	0.0132	0.0089	0.0014	—	—	25
26	—	—	—	0.0231	0.0002	0.0005	0.0002	0.0114	0.0070	0.0013	—	—	26
27	—	—	—	0.0179	0.0001	0.0004	0.0002	0.0091	0.0058	0.0011	—	—	27
28	—	—	—	0.0144	0.0001	0.0006	0.0002	0.0068	0.0051	0.0010	—	—	28
29	—	—	—	0.0116	0.0002	0.0006	0.0002	0.0054	0.0045	0.0009	—	—	29
30	—	—	—	0.0098	0.0002	0.0006	0.0002	0.0040	0.0039	0.0008	—	—	30
31	—	—	—		0.0002		0.0002	0.0025		0.0007		0.0002 E	31
TOTAL	—	—	—	0.2247	0.2953	0.0084	0.0095	0.1693	0.1366	0.0684	—	—	TOTAL
MEAN	—	—	—	0.0075	0.0095	0.0003	0.0003	0.0055	0.0046	0.0022	—	—	MEAN
MAX	—	—	—	0.0587	0.0345	0.0008	0.0005	0.0205	0.0188	0.0038	—	—	MAX
MIN	—	—	—	0.0000	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	—	—	MIN

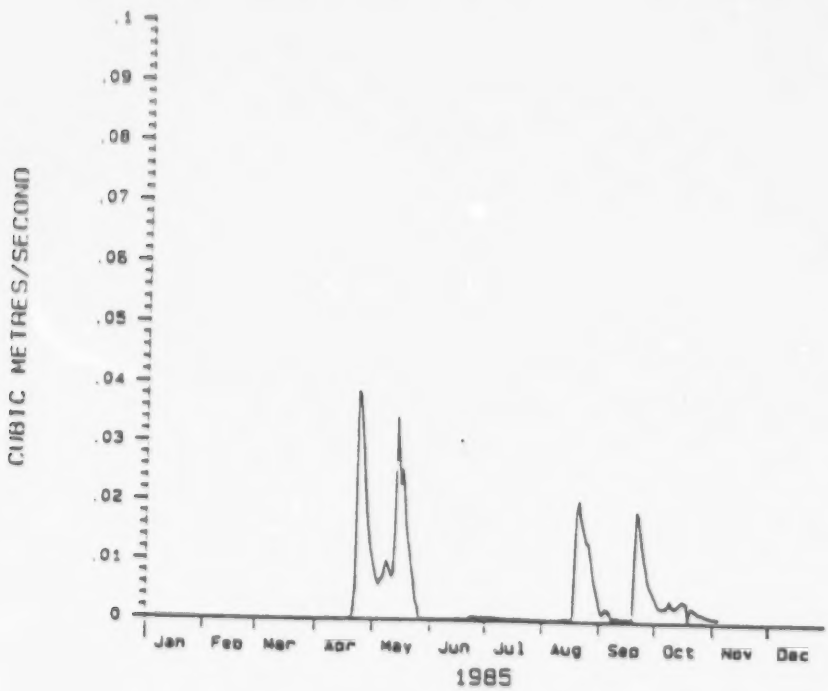
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	19414	25514	726	821	14623	11802	5910	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	78810	CUBIC METRES	
MEAN DISCHARGE,	0.0043	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0587	CUBIC METRES/SEC	ON APR 22
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON APR 1
MAX INSTANTANEOUS FLOW,	0.0793	CUBIC METRES/SEC	ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0000	0.0221	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	1
2	—	—	—	0.0000	0.0189	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	2
3	—	—	—	0.0000	0.0151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	—	3
4	—	—	—	0.0008	0.0121	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	4
5	—	—	0.0000 A	0.0016	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	5
6	—	—	—	0.0029	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	6
7	—	—	—	0.0039	0.0105	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	7
8	—	—	—	0.0047	0.0090	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	8
9	—	—	—	0.0048	0.0077	0.0000	0.0000	0.0000	0.0000	0.0000	—	0.0000 A	9
10	—	—	—	0.0050	0.0067	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	10
11	—	—	—	0.0051	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	11
12	—	—	—	0.0054	0.0053	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	12
13	—	—	—	0.0052	0.0044	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	13
14	—	—	—	0.0048	0.0039	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	14
15	—	—	—	0.0047	0.0033	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	15
16	—	—	—	0.0044	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	16
17	—	—	—	0.0044	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	17
18	—	0.0000 A	—	0.0044	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	18
19	—	—	—	0.0058	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	19
20	—	—	—	0.0072	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	20
21	0.0000 A	—	—	0.0071	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	21
22	—	—	—	0.0066	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	22
23	—	—	—	0.0060	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	23
24	—	—	—	0.0056	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	24
25	—	—	0.0000 A	0.0052	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	25
26	—	—	0.0000	0.0069	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	26
27	—	—	0.0000	0.0080	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	27
28	—	—	0.0000	0.0151	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	28
29	—		0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	29
30	—		0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	30
31	—		0.0000		0.0000		0.0000	0.0000		0.0000	—	0.0000 E	31
TOTAL	—	—	—	0.1792	0.1626	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	TOTAL
MEAN	—	—	—	0.0060	0.0052	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MEAN
MAX	—	—	—	0.0240	0.0221	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MAX
MIN	—	—	—	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

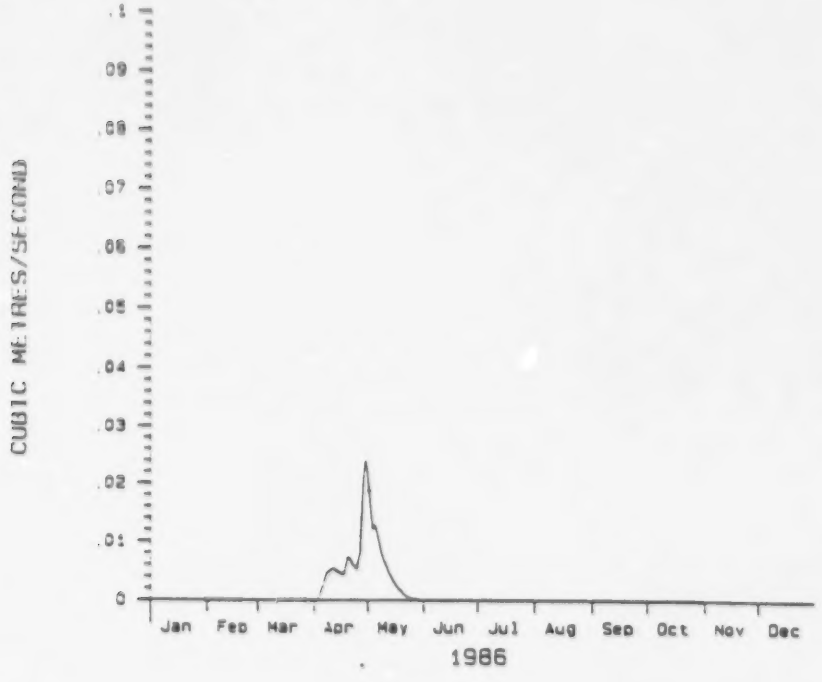
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	15487	14049	0	0	0	0	0	0	0

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	29932	CUBIC METRES
MEAN DISCHARGE,	0.0016	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0240	CUBIC METRES/SEC ON APR 30
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 29
MAX INSTANTANEOUS FLOW,	0.0091	CUBIC METRES/SEC ON APR 29

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 225 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0011	0.0001	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	----	0.0011	0.0001	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	2
3	----	----	----	0.0011	0.0001	0.0007	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0010	0.0001	0.0006	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0010	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0011	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0017	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0028	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0032	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0033	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0033	0.0000	0.0024	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0034	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0034	0.0000	0.0017	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0034	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0034	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0034	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	----	----	16
17	----	0.0000 A	----	0.0031	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	0.0000 A	17
18	----	----	----	0.0028	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0024	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0019	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	20
21	0.0000 A	----	----	0.0016	0.0004	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0012	0.0006	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0009	0.0007	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0000 A	0.0007	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	0.0000 A	0.0006	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0000	0.0005	0.0015	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0002	0.0004	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0010	0.0003	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0010	0.0002	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0010	0.0001	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0011		0.0008		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.0544	0.0112	0.0152	0.0000	0.0000	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0018	0.0004	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0034	0.0017	0.0024	0.0000	0.0000	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

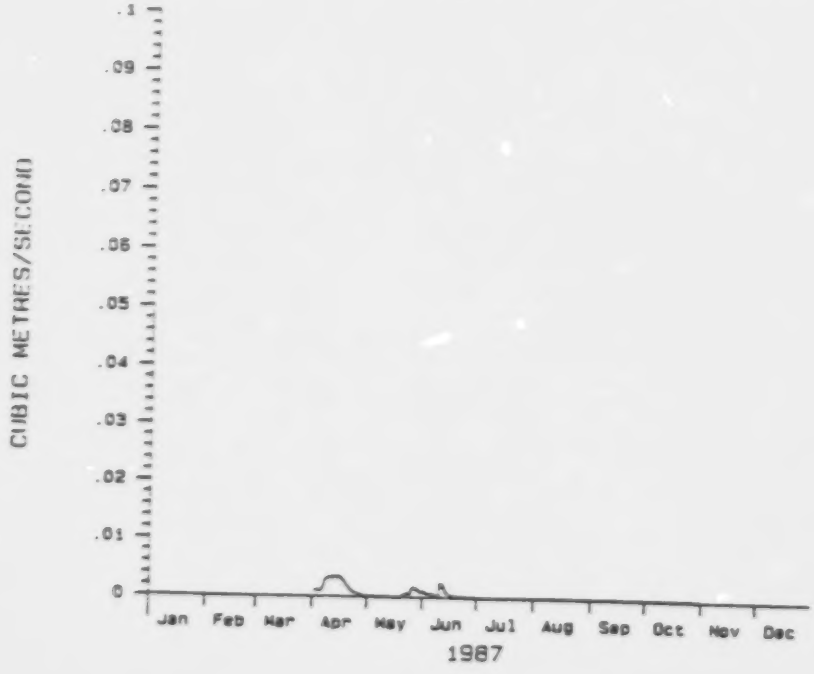
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	4700	968	1313	0	0	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	6981	CUBIC METRES
MEAN DISCHARGE.	0.0004	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0034	CUBIC METRES/SEC ON APR 12
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON MAY 05
MAX INSTANTANEOUS FLOW.	0.0035	CUBIC METRES/SEC ON APR 15

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0021 E	0.0018	0.0215	0.0003	0.0001	0.0000	0.0000	----	----	1
2	----	----	----	0.0021 E	0.0007	0.0109	0.0011	0.0001	0.0000	0.0007	----	----	2
3	----	----	----	0.0021 E	0.0005	0.0001	0.0221	0.0001	0.0000	0.0012	----	----	3
4	----	----	----	0.0020 E	0.0008	0.0000	0.0192	0.0268	0.0000	0.0016	----	----	4
5	----	----	----	0.0020 E	0.0394	0.0000	0.0186	0.0331	0.0000	0.0014	----	----	5
6	----	----	----	0.0020 A	0.0307	0.0000	0.0467	0.0070	0.0000	0.0019	----	----	6
7	----	----	----	0.0021 E	0.0216	0.0106	0.0335	0.0002	0.0000	0.0245	----	----	7
8	----	----	----	0.0021 E	0.0155	0.0115	0.0407	0.0000	0.0000	0.0380	----	----	8
9	----	0.0033 A	----	0.0022 E	0.0126	0.0002	0.0182	0.0000	0.0000	0.0365	----	----	9
10	----	----	----	0.0022 E	0.0123	0.0010	0.0150	0.0147	0.0000	0.0419	----	----	10
11	----	----	0.0019 A	0.0022 E	0.0210	0.0004	0.0212	0.0121	0.0000	0.0468	----	----	11
12	----	----	----	0.0023 E	0.0375	0.0001	0.0256	0.0002	0.0000	0.0437	----	----	12
13	----	----	----	0.0023 E	0.0184	0.0000	0.0505	0.0000	0.0000	0.0371	----	----	13
14	----	----	----	0.0023 A	0.0320	0.0000	0.0591	0.0000	0.0000	0.0385	----	----	14
15	----	----	----	0.0044	0.0038	0.0104	0.0125	0.0000	0.0000	0.0370	----	----	15
16	----	----	----	0.0186	0.0022	0.0018	0.0029	0.0000	0.0000	0.0300	----	----	16
17	----	----	----	0.0415	0.0024	0.0013	0.0021	0.0000	0.0000	0.0261	----	----	17
18	----	----	----	0.0457	0.0340	0.0012	0.0016	0.0000	0.0000	0.0331	----	----	18
19	----	----	----	0.0433	0.0447	0.0013	0.0013	0.0000	0.0000	0.0333	----	----	19
20	----	----	----	0.0408	0.0413	0.0007	0.0518	0.0000	0.0000	0.0294	----	----	20
21	----	----	----	0.0382	0.0339	0.0007	0.0654	0.0000	0.0000	0.0278	----	----	21
22	----	----	----	0.0394	0.0182	0.0004	0.0592	0.0000	0.0000	0.0280	----	----	22
23	----	----	----	0.0421	0.0065	0.0003	0.0413	0.0000	0.0000	0.0254	----	----	23
24	----	----	----	0.0288	0.0256	0.0002	0.0171	0.0000	0.0000	0.0221	----	----	24
25	----	----	----	0.0192	0.0305	0.0001	0.0043	0.0000	0.0000	0.0202	----	----	25
26	----	----	----	0.0146	0.0236	0.0000	0.0032	0.0000	0.0000	0.0183	----	----	26
27	----	----	----	0.0158	0.0017	0.0000	0.0180	0.0000	0.0000	0.0155	----	----	27
28	----	----	----	0.0099	0.0010	0.0000	0.0322	0.0000	0.0002	0.0143	----	----	28
29	----		----	0.0031	0.0003	0.0000	0.0079	0.0000	0.0001	0.0128	----	----	29
30	----		----	0.0021	0.0000	0.0161	0.0011	0.0000	0.0000	0.0117	----	----	30
31	----		----		0.0002		0.0002	0.0000		0.0100		0.0028 E	31
TOTAL	----	----	----	0.4375	0.5147	0.0908	0.6939	0.0944	0.0003	0.7068	----	----	TOTAL
MEAN	----	----	----	0.0146	0.0166	0.0030	0.0224	0.0030	0.0000	0.0228	----	----	MEAN
MAX	----	----	----	0.0457	0.0447	0.0215	0.0654	0.0331	0.0002	0.0468	----	----	MAX
MIN	----	----	----	0.0020	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	----	----	MIN

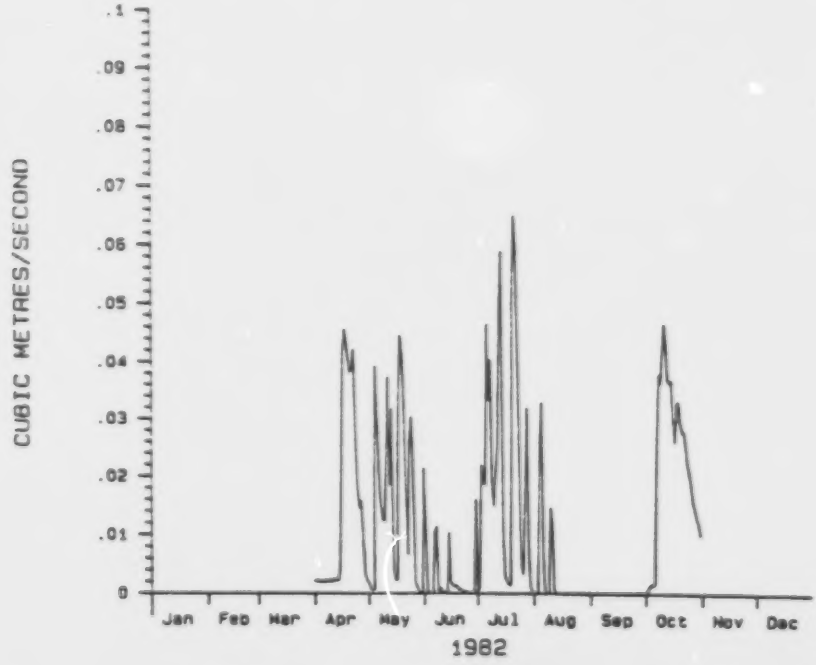
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	37800	44470	7845	59953	8156	26	61068	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	219318	CUBIC METRES	
MEAN DISCHARGE,	0.0118	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0654	CUBIC METRES/SEC	ON JUL 21
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON MAY 30
MAX INSTANTANEOUS FLOW,	0.1390	CUBIC METRES/SEC	ON MAY 5

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0028 E	----	----	0.0026	0.0208	0.0048	0.0060	0.0002	0.0000	0.0000			
2	----	----	----	0.0044	0.0184	0.0044	0.0051	0.0002	0.0000	0.0000	----	----	1
3	----	----	----	0.0045	0.0169	0.0045	0.0065	0.0001	0.0000	0.0000	----	----	2
4	----	----	----	0.0044	0.0155	0.0054	0.0099	0.0001	0.0000	0.0000	----	----	3
5	----	----	----	0.0043	0.0145	0.0052	0.0104	0.0001	0.0000	0.0000	----	----	4
											----	----	5
6	----	----	----	0.0042	0.0129	0.0045	0.0097	0.0001	0.0000	0.0000			
7	----	----	----	0.0040	0.0111	0.0036	0.0088	0.0000	0.0000	0.0000	----	----	6
8	----	----	----	0.0040	0.0105	0.0031	0.0080	0.0000	0.0000	0.0000	----	----	7
9	----	----	----	0.0047	0.0094	0.0028	0.0072	0.0000	0.0000	0.0000	----	----	8
10	----	----	----	0.0055	0.0090	0.0025	0.0062	0.0000	0.0000	0.0000	----	----	9
											----	----	10
11	0.0028 A	----	----	0.0071	0.0093	0.0022	0.0048	0.0000	0.0000	0.0000			
12	----	----	----	0.0103	0.0105	0.0018	0.0034	0.0000	0.0000	0.0000	----	----	11
13	----	----	----	0.0128	0.0106	0.0018	0.0031	0.0000	0.0000	0.0000	----	----	12
14	----	----	0.0030 A	0.0142	0.0111	0.0103	0.0024	0.0000	0.0000	0.0000	----	----	13
15	----	----	----	0.0140	0.0121	0.0169	0.0021	0.0000	0.0000	0.0000	----	----	14
											----	----	15
16	----	----	----	0.0143	0.0113	0.0257	0.0025	0.0000	0.0000	0.0000			
17	----	----	----	0.0133	0.0108	0.0248	0.0024	0.0000	0.0000	0.0000	----	----	16
18	----	----	----	0.0131	0.0107	0.0237	0.0018	0.0000	0.0000	0.0000	----	----	17
19	----	----	----	0.0129	0.0101	0.0208	0.0016	0.0000	0.0000	0.0000	----	----	18
20	----	----	----	0.0134	0.0095	0.0172	0.0014	0.0000	0.0000	0.0000	----	----	19
											----	----	20
21	----	----	----	0.0160	0.0088	0.0151	0.0011	0.0000	0.0000	0.0000			
22	----	----	----	0.0204	0.0098	0.0160	0.0008	0.0000	0.0000	0.0000	----	----	21
23	----	----	----	0.0218	0.0092	0.0145	0.0005	0.0000	0.0000	0.0000	----	----	22
24	----	----	----	0.0228	0.0092	0.0140	0.0003	0.0000	0.0000	0.0000	----	----	23
25	----	----	----	0.0218	0.0080	0.0118	0.0003	0.0000	0.0000	0.0000	----	----	24
											----	----	25
26	----	----	----	0.0258	0.0076	0.0101	0.0002	0.0000	0.0000	0.0000			
27	----	----	----	0.0276	0.0065	0.0078	0.0001	0.0000	0.0000	0.0000	----	----	26
28	----	----	0.0012 A	0.0285	0.0064	0.0067	0.0002	0.0000	0.0000	0.0000	----	----	27
29	----		----	0.0270	0.0063	0.0056	0.0001	0.0000	0.0000	0.0000	----	----	28
30	----		----	0.0237	0.0058	0.0063	0.0001	0.0000	0.0000	0.0000	----	----	29
31	----		----		0.0050		0.0003	0.0000		0.0000	----	----	30
												----	31
TOTAL	----	----	----	0.4054	0.3326	0.2939	0.1073	0.0008	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0135	0.0107	0.0098	0.0035	.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0285	0.0208	0.0257	0.0104	0.0002	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0026	0.0050	0.0018	0.0001	0.0000	0.0000	0.0000	----	----	MIN

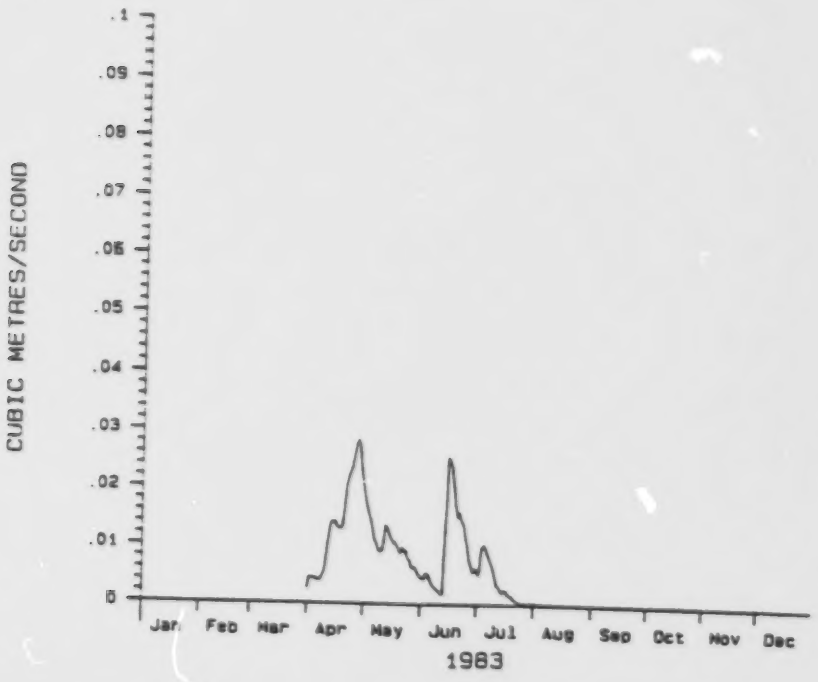
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	35027	28737	25393	9271	69	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	98496	CUBIC METRES	
MEAN DISCHARGE,	0.0054	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0285	CUBIC METRES/SEC ON	APR 27
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	JUL 23
MAX INSTANTANEOUS FLOW,	0.0294	CUBIC METRES/SEC ON	APR 27

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0000 E	0.0102	0.0029	0.0051	0.0000	0.0000	0.0051	----	----	1
2	----	----	----	0.0000 A	0.0094	0.0022	0.0045	0.0000	0.0000	0.0045	----	----	2
3	----	----	----	0.0000	0.0088	0.0013	0.0040	0.0000	0.0000	0.0040	----	----	3
4	----	----	----	0.0000	0.0081	0.0011	0.0030	0.0000	0.0000	0.0030	----	----	4
5	----	----	----	0.0075	0.0072	0.0033	0.0026	0.0000	0.0000	0.0026	----	----	5
6	----	----	----	0.0160	0.0067	0.0039	0.0021	0.0000	0.0000	0.0021	----	----	6
7	----	----	----	0.0216	0.0092	0.0063	0.0016	0.0000	0.0000	0.0016	----	----	7
8	----	----	----	0.0262	0.0103	0.0087	0.0014	0.0000	0.0000	0.0014	----	----	8
9	----	----	----	0.0290	0.0096	0.0127	0.0013	0.0000	0.0000	0.0013	----	----	9
10	----	----	----	0.0317	0.0093	0.0135	0.0010	0.0000	0.0000	0.0010	----	----	10
11	----	----	----	0.0348	0.0097	0.0129	0.0006	0.0000	0.0000	0.0001	----	----	11
12	----	----	----	0.0363	0.0104	0.0125	0.0004	0.0000	0.0000	0.0004	----	0.0050 A	12
13	----	----	----	0.0351	0.0104	0.0173	0.0007	0.0000	0.0000	0.0007	----	----	13
14	----	----	----	0.0342	0.0097	0.0179	0.0015	0.0000	0.0000	0.0015	----	----	14
15	----	----	----	0.0309	0.0088	0.0184	0.0012	0.0000	0.0000	0.0012	----	----	15
16	----	----	----	0.0282	0.0077	0.0211	0.0015	0.0000	0.0000	0.0015	----	----	16
17	----	----	----	0.0241	0.0073	0.0194	0.0014	0.0000	0.0000	0.0014	----	----	17
18	----	----	----	0.0217	0.0068	0.0165	0.0011	0.0000	0.0000	0.0011	----	----	18
19	----	----	----	0.0184	0.0065	0.0136	0.0007	0.0000	0.0000	0.0001	----	----	19
20	----	----	----	0.0163	0.0068	0.0116	0.0005	0.0000	0.0000	0.0005	----	----	20
21	----	----	----	0.0147	0.0080	0.0108	0.0006	0.0000	0.0000	0.0006	----	----	21
22	----	----	----	0.0127	0.0079	0.0123	0.0005	0.0000	0.0000	0.0005	----	----	22
23	----	----	----	0.0118	0.0072	0.0106	0.0003	0.0000	0.0000	0.0003	----	----	23
24	----	----	----	0.0102	0.0069	0.0090	0.0002	0.0000	0.0000	0.0002	----	----	24
25	----	----	----	0.0097	0.0061	0.0077	0.0001	0.0000	0.0000	0.0001	----	----	25
26	----	----	----	0.0088	0.0055	0.0080	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	----	0.0110	0.0050	0.0095	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	----	0.0126	0.0047	0.0091	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		----	0.0121	0.0041	0.0074	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		----	0.0109	0.0036	0.0063	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		----		0.0031		0.0000	0.0000		0.0000		0.0029 E	31
TOTAL	----	----	----	0.5265	0.2350	0.3078	0.0379	0.0000	0.0000	0.0367	----	----	TOTAL
MEAN	----	----	----	0.0176	0.0076	0.0103	0.0012	0.0000	0.0000	0.0012	----	----	MEAN
MAX	----	----	----	0.0363	0.0104	0.0211	0.0051	0.0000	0.0000	0.0051	----	----	MAX
MIN	----	----	----	0.0000	0.0031	0.0011	0.0000	0.0000	0.0000	0.0000	----	----	MIN

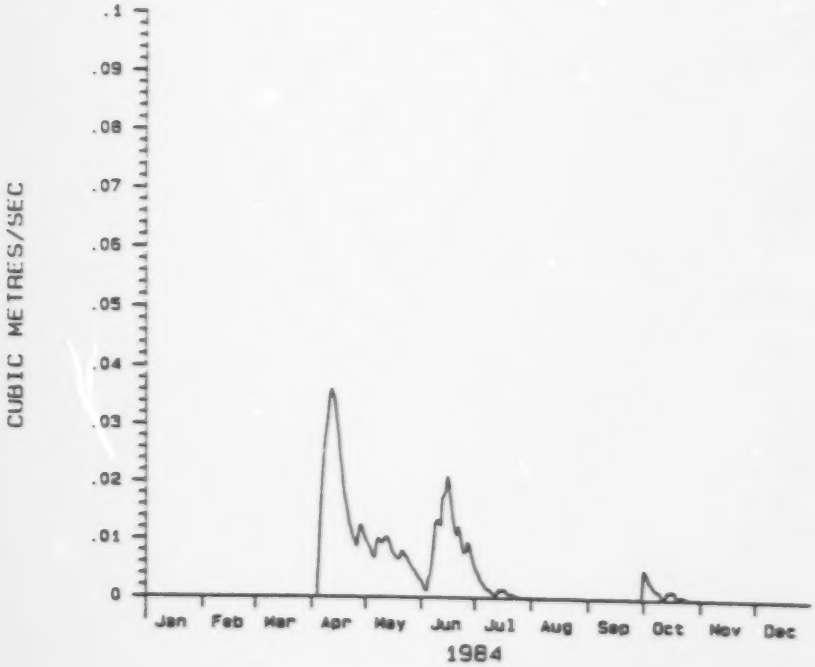
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	45490	20304	26594	3275	0	0	3173	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	98836	CUBIC METRES
MEAN DISCHARGE,	0.0054	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0363	CUBIC METRES/SEC ON APR 12
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUL 26
MAX INSTANTANEOUS FLOW,	0.0370	CUBIC METRES/SEC ON APR 12

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0029 E	—	—	0.0012 E	0.0291	0.0094	0.0240	0.0015	0.0089	0.0112	0.0008 E	—	1
2	—	—	—	0.0012 E	0.0297	0.0076	0.0219	0.0010	0.0089	0.0101	0.0008 E	—	2
3	—	—	—	0.0012	0.0192	0.0066	0.0161	0.0006	0.0094	0.0092	0.0008 E	—	3
4	—	—	—	0.0012	0.0216	0.0060	0.0132	0.0014	0.0097	0.0085	0.0008 E	—	4
5	—	—	—	0.0014	0.0225	0.0054	0.0094	0.0018	0.0095	0.0082	0.0008 E	—	5
6	—	—	—	0.0017	0.0246	0.0051	0.0064	0.0015	0.0097	0.0074	—	—	6
7	—	—	—	0.0019	0.0301	0.0049	0.0055	0.0011	0.0076	0.0074	—	—	7
8	—	—	—	0.0020	0.0291	0.0045	0.0042	0.0009	0.0068	0.0104	—	—	8
9	—	—	—	0.0020	0.0261	0.0031	0.0031	0.0005	0.0056	0.0104	—	—	9
10	—	—	—	0.0020	0.0216	0.0025	0.0020	0.0002	0.0049	0.0095	—	0.0070 A	10
11	—	—	—	0.0021	0.0271	0.0022	0.0019	0.0002	0.0044	0.0090	—	—	11
12	—	—	—	0.0028	0.0271	0.0020	0.0008	0.0006	0.0042	0.0101	—	—	12
13	—	—	—	0.0031	0.0642	0.0021	0.0010	0.0034	0.0036	0.0116	—	—	13
14	—	—	—	0.0041	0.0604	0.0021	0.0012	0.0047	0.0035	0.0124	—	—	14
15	—	—	—	0.0063	0.0579	0.0022	0.0008	0.0052	0.0035	0.0132	—	—	15
16	—	—	—	0.0087	0.0680	0.0034	0.0006	0.0067	0.0033	0.0132	—	—	16
17	—	—	—	0.0092	0.0615	0.0042	0.0004	0.0057	0.0032	0.0130	—	—	17
18	—	—	—	0.0094	0.0529	0.0041	0.0112	0.0491	0.0029	0.0128	—	—	18
19	—	0.0038 A	0.0007 A	0.0114	0.0420	0.0035	0.0076	0.0442	0.0231	0.0128	—	—	19
20	—	—	—	0.0128	0.0348	0.0031	0.0050	0.0375	0.0468	0.0118	—	—	20
21	0.0007 A	—	—	0.0341	0.0305	0.0043	0.0022	0.0312	0.0433	0.0108	—	—	21
22	—	—	—	0.0990	0.0249	0.0228	0.0014	0.0315	0.0364	0.0042 E	—	—	22
23	—	—	—	0.0969	0.0211	0.0261	0.0050	0.0387	0.0315	0.0010 E	—	—	23
24	—	—	—	0.0875	0.0171	0.0240	0.0085	0.0352	0.0271	0.0010 E	—	—	24
25	—	—	—	0.0750	0.0152	0.0225	0.0073	0.0308	0.0222	0.0010	—	—	25
26	—	—	—	0.0676	0.0136	0.0219	0.0062	0.0255	0.0189	0.0010	—	—	26
27	—	—	—	0.0594	0.0112	0.0228	0.0056	0.0200	0.0169	0.0008	—	—	27
28	—	—	—	0.0495	0.0095	0.0288	0.0042	0.0159	0.0154	0.0009	—	—	28
29	—	—	—	0.0391	0.0099	0.0298	0.0036	0.0132	0.0139	0.0009	—	—	29
30	—	—	—	0.0333	0.0112	0.0279	0.0030	0.0112	0.0124	0.0008	—	—	30
31	—	—	—		0.0101		0.0022	0.0101		0.0008 E		0.0050 E	31
TOTAL	—	—	—	0.7231	0.9278	0.7149	0.1789	0.4611	0.4175	0.2954	—	—	TOTAL
MEAN	—	—	—	0.0241	0.0299	0.0105	0.0058	0.0149	0.0139	0.0076	—	—	MEAN
MAX	—	—	—	0.0990	0.0680	0.0298	0.0240	0.0491	0.0468	0.0132	—	—	MAX
MIN	—	—	—	0.0012	0.0095	0.0020	0.0004	0.0002	0.0029	0.0008	—	—	MIN

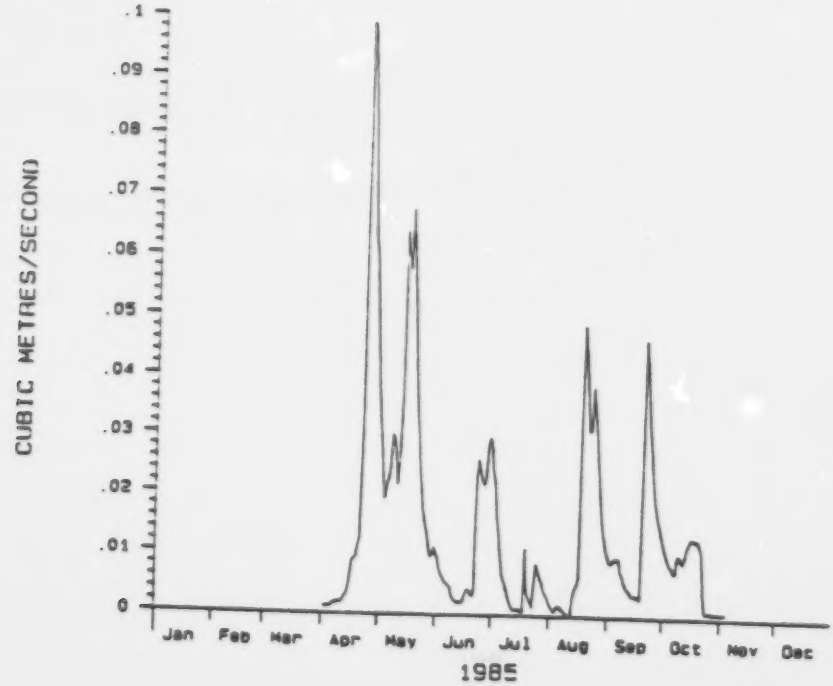
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	62476	80158	27205	15457	39842	36072	20339	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	281548	CUBIC METRES
MEAN DISCHARGE,	0.0152	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0990	CUBIC METRES/SEC ON APR 22
MIN DAILY DISCHARGE,	0.0002	CUBIC METRES/SEC ON AUG 10
MAX INSTANTANEOUS FLOW,	0.1011	CUBIC METRES/SEC ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0050 E	—	—	0.0092	0.0568	0.0002	0.0001	0.0000	0.0000	0.0018	0.0061	—	1
2	—	—	—	0.0129	0.0543	0.0003	0.0001	0.0000	0.0001	0.0023	0.0054	—	2
3	—	—	—	0.0159	0.0469	0.0003	0.0001	0.0000	0.0004	0.0029	0.0048 A	—	3
4	—	—	—	0.0184	0.0402	0.0001	0.0001	0.0000	0.0004 E	0.0030	—	—	4
5	—	—	0.0022 A	0.0206	0.0412	0.0001	0.0004	0.0000	0.0004 E	0.0031	—	—	5
6	—	—	—	0.0228	0.0397	0.0001	0.0002	0.0000	0.0004 E	0.0028	—	—	6
7	—	—	—	0.0246	0.0360	0.0001	0.0001	0.0000	0.0003 E	0.0031	—	—	7
8	—	—	—	0.0254	0.0328	0.0002	0.0001	0.0000	0.0002 E	0.0032	—	—	8
9	—	—	—	0.0254	0.0299	0.0001	0.0001	0.0000	0.0002 E	0.0029	—	—	9
10	—	—	—	0.0248	0.0256	0.0001	0.0001	0.0000	0.0002	0.0029	—	0.0175 A	10
11	—	—	—	0.0240	0.0214	0.0001	0.0001	0.0000	0.0002	0.0031	—	—	11
12	—	—	—	0.0233	0.0174	0.0000	0.0002	0.0000	0.0003	0.0027	—	—	12
13	—	—	—	0.0215	0.0152	0.0001	0.0002	0.0000	0.0002	0.0025	—	—	13
14	—	—	—	0.0200	0.0149	0.0001	0.0001	0.0000	0.0002	0.0024	—	—	14
15	—	—	—	0.0190	0.0143	0.0001	0.0001	0.0000	0.0001	0.0024	—	—	15
16	—	—	—	0.0177	0.0135	0.0001	0.0001	0.0000	0.0002	0.0025	—	—	16
17	—	—	—	0.0169	0.0123	0.0001	0.0001	0.0000	0.0002	0.0024	—	—	17
18	—	0.0006 A	—	0.0161	0.0122	0.0000	0.0000	0.0000	0.0003	0.0023	—	—	18
19	—	—	—	0.0179	0.0116	0.0000	0.0000	0.0000	0.0003	0.0023	—	—	19
20	—	—	—	0.0193	0.0108	0.0001	0.0000	0.0000	0.0003	0.0022	—	—	20
21	0.0030 A	—	—	0.0198	0.0102	0.0001	0.0000	0.0000	0.0004	0.0020	—	—	21
22	—	—	—	0.0194	0.0094	0.0000	0.0000	0.0000	0.0006	0.0019	—	—	22
23	—	—	—	0.0190	0.0091	0.0000	0.0000	0.0000	0.0005	0.0019	—	—	23
24	—	—	—	0.0181	0.0088	0.0000	0.0000	0.0000	0.0007	0.0019	—	—	24
25	—	—	0.0018 A	0.0171	0.0011	0.0001	0.0000	0.0000	0.0010	0.0018	—	—	25
26	—	—	0.0019	0.0202	0.0002	0.0001	0.0000	0.0000	0.0013	0.0019	—	—	26
27	—	—	0.0020	0.0215	0.0001	0.0001	0.0000	0.0000	0.0017	0.0063	—	—	27
28	—	—	0.0022	0.0189	0.0001	0.0000	0.0000	0.0000	0.0018	0.0098	—	—	28
29	—		0.0026	0.0522	0.0001	0.0000	0.0000	0.0000	0.0017	0.0087	—	—	29
30	—		0.0037	0.0525	0.0001	0.0000	0.0000	0.0000	0.0019	0.0081	—	—	30
31	—		0.0057		0.0001		0.0000	0.0000		0.0075		0.0097 E	31
TOTAL	—	—	—	0.6752	0.5863	0.0027	0.0029	0.0000	0.0165	0.1046	—	—	TOTAL
MEAN	—	—	—	0.0225	0.0189	0.0001	0.0001	0.0000	0.0006	0.0074	—	—	MEAN
MAX	—	—	—	0.0525	0.0568	0.0003	0.0004	0.0000	0.0019	0.0098	—	—	MAX
MIN	—	—	—	0.0092	0.0001	0.0000	0.0000	0.0000	0.0000	0.0018	—	—	MIN

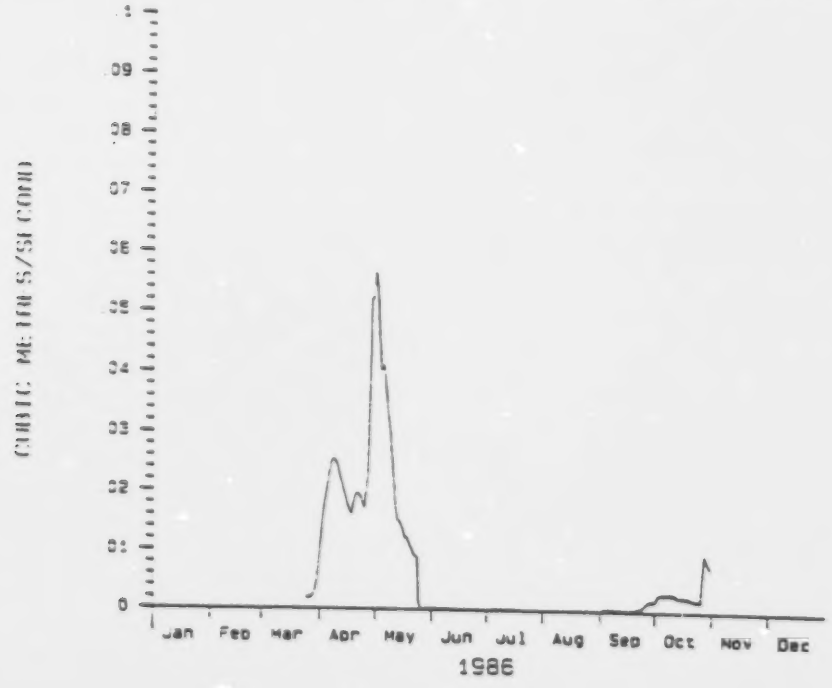
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	58337	50656	233	199	0	1426	9037	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	119889	CUBIC METRES
MEAN DISCHARGE,	0.0065	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0568	CUBIC METRES/SEC ON MAY 01
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 12
MAX INSTANTANEOUS FLOW,	0.0576	CUBIC METRES/SEC ON MAY 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 226 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0097 E	----	0.0016 E	0.0167	0.0003	0.0072	0.0036	0.0032	0.0035 E	0.0018	0.0001	----	1
2	----	----	0.0017 E	0.0168	0.0003	0.0057	0.0037	0.0027	0.0035	0.0013	0.0001 A	----	2
3	----	----	0.0017 E	0.0168	0.0003	0.0038	0.0036	0.0019	0.0035	0.0009	----	----	3
4	----	----	0.0017 E	0.0157	0.0003	0.0036	0.0032	0.0016	0.0035	0.0007	----	----	4
5	----	----	0.0018 A	0.0140	0.0002	0.0036	0.0030	0.0019	0.0033	0.0009	----	----	5
6	----	----	0.0018 E	0.0140	0.0002	0.0039	0.0028	0.0028	0.0012	0.0007	----	----	6
7	----	----	0.0018 E	0.0148	0.0003	0.0041	0.0024	0.0023	0.0017 E	0.0005	----	----	7
8	----	----	0.0018 E	0.0159	0.0002	0.0039	0.0019	0.0018	0.0021 E	0.0006	----	----	8
9	----	----	0.0018 E	0.0167	0.0001	0.0037	0.0018	0.0018	0.0011 E	0.0012	----	----	9
10	----	----	0.0018 E	0.0172	0.0002	0.0037	0.0020	0.0021	0.0016	0.0009	----	----	10
11	----	----	0.0018 E	0.0155	0.0003	0.0090	0.0020	0.0040	0.0016	0.0007	----	----	11
12	----	----	0.0018 E	0.0136	0.0002	0.0101	0.0027	0.0056	0.0018	0.0006	----	----	12
13	----	----	0.0018 E	0.0048	0.0002	0.0096	0.0026	0.0047	0.0007	0.0005	----	----	13
14	----	----	0.0018 E	0.0008	0.0001	0.0085	0.0026	0.0038	0.0005	0.0004	----	----	14
15	----	----	0.0018 E	0.0007	0.0001	0.0074	0.0029	0.0043	0.0013	0.0003	----	----	15
16	----	----	0.0018 E	0.0006	0.0001	0.0063	0.0030	0.0063	0.0015	0.0002	----	----	16
17	----	0.0012 A	0.0018 E	0.0006	0.0002	0.0058	0.0018	0.0048	0.0012	0.0001	----	0.0010 A	17
18	----	----	0.0018 E	0.0035	0.0002	0.0053	0.0018	0.0049	0.0012	0.0002	----	----	18
19	----	----	0.0018 E	0.0028	0.0001	0.0048	0.0013	0.0032	0.0011	0.0001	----	----	19
20	0.0024 A	----	0.0019 E	0.0010	0.0002	0.0045	0.0010	0.0024	0.0009	0.0000	----	----	20
21	0.0022 A	----	0.0050 E	0.0005	0.0024	0.0042	0.0021	0.0016	0.0010	0.0000	----	----	21
22	----	----	0.0082 E	0.0013	0.0073	0.0043	0.0043	0.0008	0.0010	0.0000	----	----	22
23	----	----	0.0115 E	0.0015	0.0096	0.0041	0.0033	0.0009	0.0007	0.0000	----	----	23
24	----	----	0.0147 A	0.0018	0.0093	0.0037	0.0014	0.0028	0.0005	0.0000	0.0013 A	----	24
25	----	----	0.0181 A	0.0014	0.0087	0.0037	0.0016	0.0018	0.0004	0.0000	----	----	25
26	----	----	0.0179	0.0013	0.0101	0.0042	0.0018	0.0025	0.0008	0.0001	----	----	26
27	----	----	0.0175	0.0006	0.0121	0.0042	0.0009	0.0034	0.0023	0.0001	----	----	27
28	----	----	0.0176	0.0004	0.0129	0.0041	0.0015	0.0034	0.0022	0.0001	----	----	28
29	----		0.0175	0.0005	0.0116	0.0038	0.0022	0.0035	0.0023	0.0001	----	----	29
30	----		0.0172	0.0004	0.0101	0.0036	0.0021	0.0032	0.0018	0.0001	----	----	30
31	----		0.0169		0.0085		0.0029	0.0035 E		0.0001		0.0005 E	31
TOTAL	----	----	0.1976	0.2122	0.1067	0.1544	0.0738	0.0935	0.0498	0.0132	----	----	TOTAL
MEAN	----	----	0.0064	0.0071	0.0034	0.0051	0.0024	0.0030	0.0017	0.0004	----	----	MEAN
MAX	----	----	0.0181	0.0172	0.0129	0.0101	0.0043	0.0063	0.0035	0.0018	----	----	MAX
MIN	----	----	0.0016	0.0004	0.0001	0.0036	0.0009	0.0008	0.0004	0.0000	----	----	MIN

MONTHLY DISCHARGES IN CUBIC METRES

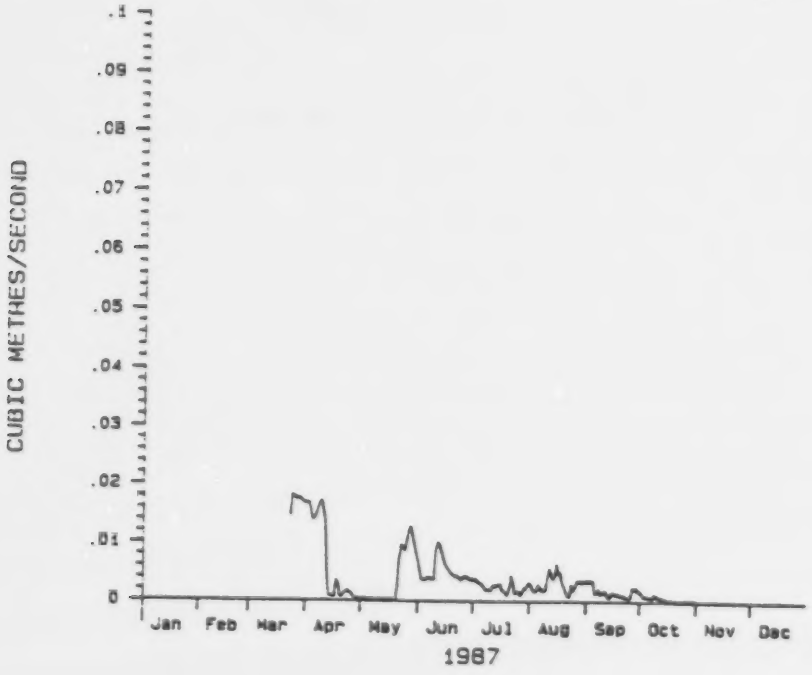
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	17073	18334	9219	13340	6376	8078	4303	1140	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	77864	CUBIC METRES
MEAN DISCHARGE.	0.0037	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0181	CUBIC METRES/SEC ON MAR 25
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON OCT 20
MAX INSTANTANEOUS FLOW.	0.0185	CUBIC METRES/SEC ON MAR 26

NOTE: STREAMFLOW WAS REGULATED AT THE UPSTREAM BEAVER DAM FOR EXPERIMENTAL PURPOSES.

A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
--- NO DATA OR NOT APPLICABLE



LAKE 227 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0002 A	0.0103	0.0045	0.0000 E	0.0004	0.0000	0.0055	----	----	1
2	----	----	----	0.0003 E	0.0085	0.0049 A	0.0004 E	0.0006	0.0000	0.0065	----	----	2
3	----	----	----	0.0007 E	0.0077	0.0043 E	0.0326 E	0.0009	0.0000	0.0073	----	----	3
4	----	----	----	0.0010 E	0.0079	0.0034 E	0.0371 E	0.0007	0.0000	0.0070	----	----	4
5	----	----	----	0.0013 E	0.0096	0.0027 E	0.0261 E	0.0007	0.0000	0.0059	----	----	5
6	----	----	----	0.0015 E	0.0085	0.0024 E	0.0213 A	0.0005	0.0000	0.0050	----	----	6
7	----	----	----	0.0016 E	0.0086	0.0035 E	0.0145	0.0004	0.0000	0.0175	----	----	7
8	----	0.0002 A	----	0.3016	0.0083	0.0035 E	0.0105	0.0004	0.0000	0.0192	----	----	8
9	----	----	----	0.0015	0.0069	0.0044 E	0.0075	0.0003	0.0000	0.0151	----	----	9
10	----	----	0.0003 A	0.3014	0.0064	0.0070 E	0.0058	0.0002	0.0000	0.0159	----	----	10
11	----	----	----	0.0014	0.0061	0.0071 E	0.0045	0.0002	0.0000	0.0196	----	----	11
12	----	----	----	0.0013	0.0055	0.0063 E	0.0035	0.0001	0.0000	0.0168	----	----	12
13	0.0004 A	----	----	0.0012	0.0050	0.0053 E	0.0029	0.0001	0.0000	0.0142	----	----	13
14	----	----	----	0.0012	0.0048	0.0053 E	0.0024	0.0001	0.0000	0.0110	----	0.0005 E	14
15	----	----	----	0.0018	0.0050	0.0042 E	0.0020	0.0001	0.0000	0.0088	----	----	15
16	----	----	----	0.0071	0.0049	0.0036 E	0.0018	0.0000	0.0000	0.0073	----	----	16
17	----	----	----	0.0134	0.0050	0.0026 E	0.0030	0.0000	0.0000	0.0063	----	----	17
18	----	----	----	0.0125	0.0122	0.0022 E	0.0027	0.0000	0.0000	0.0057	----	----	18
19	----	----	----	0.0106	0.0177	0.0016 E	0.0022	0.0000	0.0000	0.0049	----	----	19
20	----	----	----	0.0090	0.0153	0.0014 E	0.0019	0.0000	0.0000	0.0042	----	----	20
21	----	----	----	0.0082	0.0128	0.0013 E	0.0017	0.0000	0.0000	0.0035	----	----	21
22	----	----	----	0.0100	0.0104	0.0012 E	0.0013	0.0000	0.0000	0.0030	----	----	22
23	----	----	----	0.0184	0.0081	0.0009 E	0.0010	0.0000	0.0000	0.0030	----	----	23
24	----	----	----	0.0301	0.0065	0.0007 E	0.0022	0.0000	0.0000	0.0027	----	----	24
25	----	----	----	0.0330	0.0053	0.0005 E	0.0022	0.0000	0.0000	0.0025	----	----	25
26	----	----	----	0.0239	0.0047	0.0003 E	0.0016	0.0000	0.0000	0.0024	----	----	26
27	----	----	----	0.0171	0.0038	0.0002 E	0.0014	0.0000	0.0000	0.0023	----	----	27
28	----	----	----	0.0132	0.0032	0.0001 E	0.0011	0.0000	0.0025	0.0022	----	----	28
29	----		----	0.0113	0.0028	0.0001 E	0.0010	0.0000	0.0065	0.0021	----	----	29
30	----		----	0.0117	0.0025	0.0001 A	0.0009	0.0000	0.0040	0.0021	----	----	30
31	----		----		0.0031		0.0007	0.0000		0.0018		0.0013 E	31
TOTAL	----	----	----	0.2475	0.2284	0.0856	0.1976	0.0057	0.0150	0.2313	----	----	TOTAL
MEAN	----	----	----	0.0083	0.0074	0.0029	0.0064	0.0002	0.0005	0.0075	----	----	MEAN
MAX	----	----	----	0.0330	0.0177	0.0071	0.0371	0.0009	0.0065	0.0196	----	----	MAX
MIN	----	----	----	0.0002	0.0025	0.0001	0.0000	0.0000	0.0000	0.0018	----	----	MIN

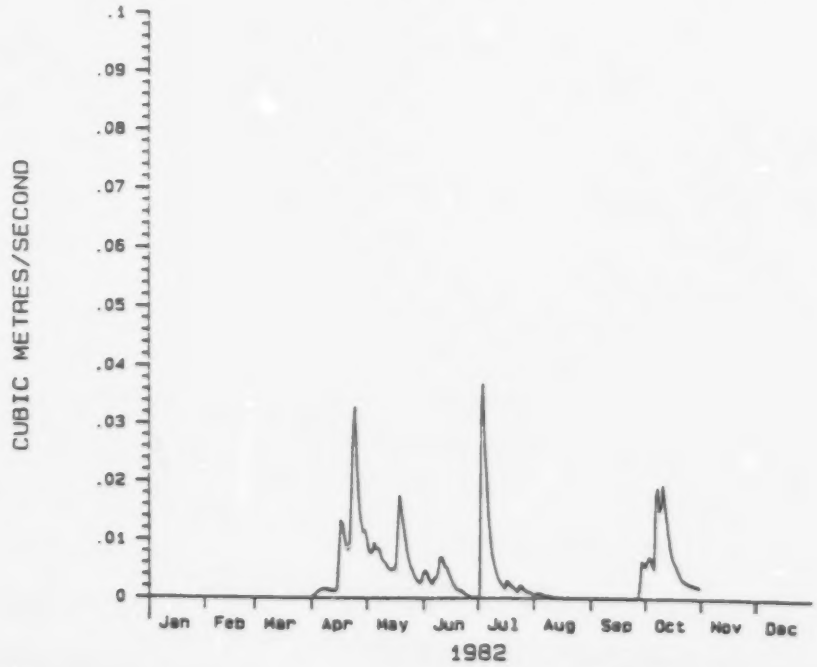
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	21384	19734	7396	17073	492	1296	19984	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	87359	CUBIC METRES	
MEAN DISCHARGE,	0.0047	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0371	CUBIC METRES/SEC	ON JUL 4
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUL 1
MAX INSTANTANEOUS FLOW,	0.0371	CUBIC METRES/SEC	ON JUL 4

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 227 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0013 E	----	----	0.0000	0.0069	0.0029	0.0012	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0000	0.0058	0.0028	0.0012	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0000	0.0052	0.0029	0.0012	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0000	0.0046	0.0030	0.0017	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0000	0.0043	0.0029	0.0019	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0000	0.0035	0.0026	0.0018	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0000	0.0032	0.0023	0.0017	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0001	0.0028	0.0020	0.0016	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0027	0.0023	0.0019	0.0014	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0101	0.0023	0.0016	0.0012	0.0000	0.0000	0.0000	----	----	10
11	0.0017 A	----	----	0.0104	0.0025	0.0015	0.0009	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0376	0.0020	0.0015	0.0007	0.0000	0.0000	0.0000	----	0.0000 A	12
13	----	----	----	0.0154	0.0049	0.0013	0.0006	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0100	0.0055	0.0054	0.0004	0.0000	0.0000	0.0000	----	----	14
15	----	0.0000 A	----	0.0078	0.0053	0.0087	0.0004	0.0000	0.0000	0.0000	----	----	15
16	----	----	0.0000 A	0.0064	0.0047	0.0088	0.0004	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0053	0.0044	0.0076	0.0004	0.0000	0.0000	0.0000	----	----	17
18	----	----	----	0.0044	0.0042	0.0067	0.0004	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0040	0.0043	0.0054	0.0003	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0034	0.0042	0.0046	0.0003	0.0000	0.0000	0.0000	----	----	20
21	----	----	----	0.0044	0.0042	0.0038	0.0001	0.0000	0.0000	0.0000	----	----	21
22	----	----	----	0.0066	0.0047	0.0039	0.0001	0.0000	0.0000	0.0000	----	----	22
23	----	----	----	0.0075	0.0047	0.0036	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	----	0.0080	0.0048	0.0032	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	----	0.0100	0.0044	0.0028	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	----	0.0114	0.0038	0.0023	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	----	0.0104	0.0035	0.0017	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	----	0.0095	0.0034	0.0014	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		----	0.0086	0.0035	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		----	0.0077	0.0031	0.0013	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		----		0.0030		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	----	0.2057	0.1270	0.1016	0.0199	0.0000	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	----	0.0069	0.0041	0.0034	0.0006	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0376	0.0069	0.0088	0.0019	0.0000	0.0000	0.0000	----	----	MAX
MIN	----	----	----	0.0000	0.0023	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	MIN

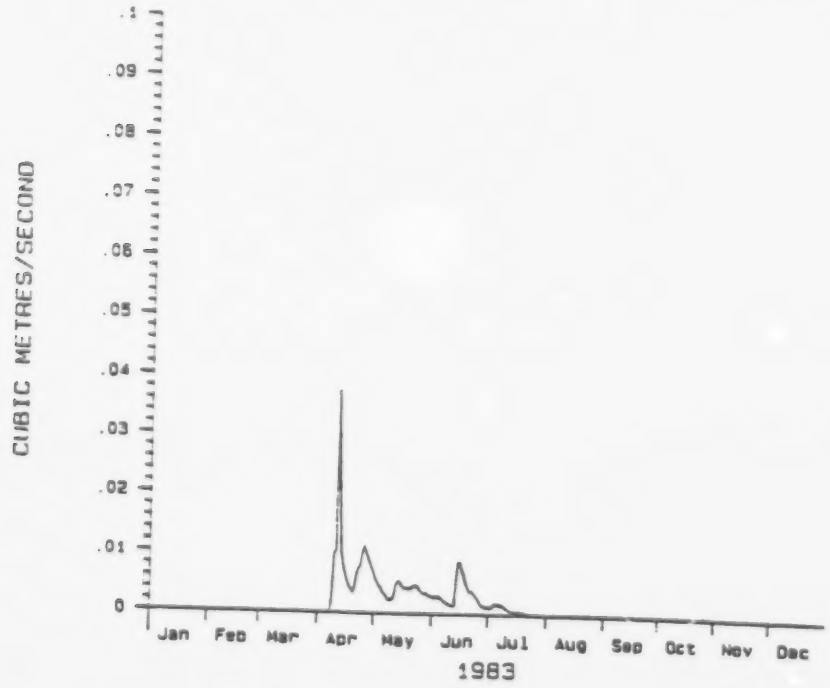
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	17772	10973	8778	1719	0	0	0	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	39243	CUBIC METRES		
MEAN DISCHARGE,	0.0021	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.0376	CUBIC METRES/SEC	ON APR 12	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON APR 1	
MAX INSTANTANEOUS FLOW,	0.0782	CUBIC METRES/SEC	ON APR 12	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 227 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000 E	0.0005 E	0.0008	0.0026	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0000 E	0.0005 E	0.0006	0.0023	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0000 E	0.0004 E	0.0001	0.0021	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0000 E	0.0009	0.0000	0.0021	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0002 E	0.0014	0.0006	0.0020	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0006 E	0.0015	0.0006	0.0015	0.0000	0.0000	0.0000	----	----	6
7	----	0.0000 A	----	0.0009 E	0.0051	0.0010	0.0014	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 A	0.0015 E	0.0096	0.0014	0.0013	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0022 E	0.0083	0.0022	0.0010	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0033 E	0.0075	0.0027	0.0009	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0044 E	0.0075	0.0027	0.0007	0.0000	0.0000	0.0000	----	0.0007 A	11
12	----	----	----	0.0058 E	0.0076	0.0031	0.0007	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0071 E	0.0072	0.0051	0.0008	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0066 E	0.0065	0.0053	0.0009	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0055 E	0.0059	0.0044	0.0007	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0048 E	0.0052	0.0046	0.0007	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0044 E	0.0046	0.0043	0.0007	0.0000	0.0000	0.0000	----	----	17
18	----	----	----	0.0036 E	0.0043	0.0037	0.0005	0.0000	0.0000	0.0000	----	----	18
19	----	----	----	0.0028 E	0.0039	0.0032	0.0004	0.0000	0.0000	0.0000	----	----	19
20	----	----	----	0.0021 E	0.0035	0.0024	0.0004	0.0000	0.0000	0.0002	----	----	20
21	----	----	----	0.0016 E	0.0035	0.0023	0.0003	0.0000	0.0000	0.0009	----	----	21
22	----	----	----	0.0011 E	0.0031	0.0027	0.0003	0.0000	0.0000	0.0017	----	----	22
23	----	----	----	0.0009 E	0.0025	0.0027	0.0002	0.0000	0.0000	0.0020	----	----	23
24	----	----	----	0.0007 E	0.0020	0.0021	0.0000	0.0000	0.0000	0.0022	----	----	24
25	----	----	----	0.0006 E	0.0019	0.0018	0.0000	0.0000	0.0000	0.0023	----	----	25
26	----	----	----	0.0003 E	0.0020	0.0021	0.0000	0.0000	0.0000	0.0022	----	----	26
27	----	----	----	0.0004 E	0.0019	0.0035	0.0000	0.0000	0.0000	0.0023	----	----	27
28	----	----	----	0.0006 E	0.0017	0.0035	0.0000	0.0000	0.0000	0.0024	----	----	28
29	----	----	----	0.0006 E	0.0015	0.0030	0.0000	0.0000	0.0000	0.0021	----	----	29
30	----		----	0.0006 E	0.0012	0.0029	0.0000	0.0000	0.0000	0.0018	----	----	30
31	----		----		0.0009		0.0000	0.0000		0.0018 A		0.0007 E	31
TOTAL	----	----	----	0.0633	0.1141	0.0756	0.0245	0.0000	0.0000	0.0219	----	----	TOTAL
MEAN	----	----	----	0.0021	0.0037	0.0025	0.0008	0.0000	0.0000	0.0007	----	----	MEAN
MAX	----	----	----	0.0071	0.0096	0.0053	0.0026	0.0000	0.0000	0.0024	----	----	MAX
MIN	----	----	----	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

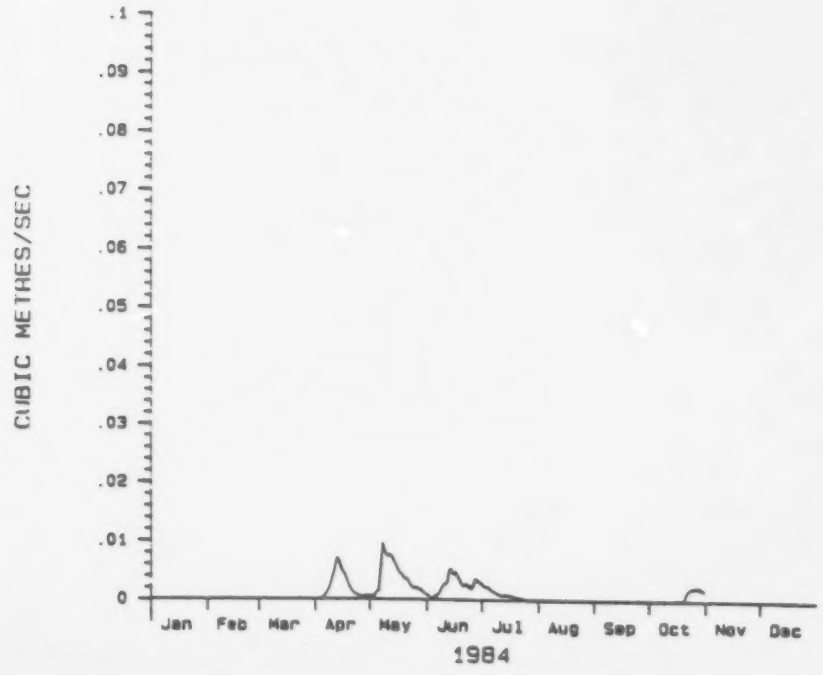
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	5469	9858	6532	2117	0	0	1892	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	25868	CUBIC METRES
MEAN DISCHARGE,	0.0014	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0096	CUBIC METRES/SEC ON MAY 8
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON APR 1
MAX INSTANTANEOUS FLOW,	0.0103	CUBIC METRES/SEC ON MAY 8

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 227 OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0007 E	—	—	0.0003 E	0.0072 E	0.0000	0.0076	0.0007	0.0002	0.0025	0.0006	—	1
2	—	—	—	0.0003 E	0.0066 E	0.0000	0.0062	0.0004	0.0002	0.0022	0.0005	—	2
3	—	—	—	0.0003 E	0.0068 E	0.0000	0.0029	0.0003	0.0004	0.0022	0.0004	—	3
4	—	—	—	0.0003	0.0106 E	0.0000	0.0002	0.0004	0.0006	0.0018	0.0004	—	4
5	—	—	—	0.0004	0.0081 E	0.0000	0.0026	0.0004	0.0022	0.0016	0.0005	—	5
6	—	—	—	0.0004	0.0041 E	0.0000	0.0035	0.0003	0.0007	0.0015	—	—	6
7	—	—	—	0.0004	0.0119 E	0.0000	0.0028	0.0002	0.0001	0.0016	—	—	7
8	—	—	—	0.0003	0.0169	0.0000	0.0002	0.0002	0.0003	0.0042	—	—	8
9	—	—	—	0.0003	0.0141	0.0000	0.0025	0.0001	0.0001	0.0040	—	—	9
10	—	—	—	0.0003	0.0106	0.0000	0.0032	0.0000	0.0001	0.0025	—	0.0025 A	10
11	—	—	—	0.0003	0.0161	0.0000	0.0025	0.0000	0.0028	0.0022	—	—	11
12	—	—	—	0.0003	0.0162	0.0000	0.0022	0.0001	0.0001	0.0027	—	—	12
13	—	—	—	0.0003	0.0170	0.0000	0.0020	0.0008	0.0222	0.0078	—	—	13
14	—	—	—	0.0005	0.0199	0.0000	0.0017	0.0011	0.0070	0.0042	—	—	14
15	—	—	—	0.0009	0.0291	0.0000	0.0013	0.0012	0.0045	0.0020	—	—	15
16	—	—	—	0.0012	0.0383	0.0000	0.0010	0.0010	0.0032	0.0005	—	—	16
17	—	—	—	0.0011	0.0291	0.0000	0.0009	0.0095	0.0087	0.0007	—	—	17
18	—	—	0.0003 A	0.0012	0.0222	0.0000	0.0009	0.0161	0.0015	0.0001	—	—	18
19	—	0.0002 A	—	0.0013	0.0157	0.0000	0.0012	0.0094	0.0777	0.0003	—	—	19
20	—	—	—	0.0028	0.0120	0.0013	0.0009	0.0012	0.0589	0.0003	—	—	20
21	0.0006 A	—	—	0.0112	0.0103	0.0035	0.0006	0.0003	0.0268	0.0113	—	—	21
22	—	—	—	0.1140 E	0.0097	0.0116	0.0005	0.0006	0.0184	0.0115	—	—	22
23	—	—	—	0.0451 E	0.0079	0.0114	0.0007	0.0012	0.0389	0.0039	—	—	23
24	—	—	—	0.0407 E	0.0059	0.0092	0.0013	0.0005	0.0408	0.0030	—	—	24
25	—	—	—	0.0301 E	0.0043	0.0071	0.0012	0.0005	0.0262	0.0026	—	—	25
26	—	—	—	0.0274 E	0.0030	0.0071	0.0010	0.0004	0.0148	0.0022	—	—	26
27	—	—	—	0.0169 E	0.0013	0.0074	0.0008	0.0003	0.0076	0.0020	—	—	27
28	—	—	—	0.0107 E	0.0000	0.0130	0.0007	0.0002	0.0051	0.0016	—	—	28
29	—	—	—	0.0095 E	0.0000	0.0128	0.0005	0.0002	0.0039	0.0010	—	—	29
30	—	—	—	0.0088 E	0.0000	0.0099	0.0007	0.0002	0.0031	0.0006	—	—	30
31	—	—	—		0.0000		0.0009	0.0002				0.0019 E	31
TOTAL	—	—	—	0.3276	0.4605	0.0943	0.0572	0.0470	0.3782	0.0804	—	—	TOTAL
MEAN	—	—	—	0.0109	0.0162	0.0031	0.0018	0.0015	0.0126	0.0027	—	—	MEAN
MAX.	—	—	—	0.1140	0.0830	0.0130	0.0076	0.0161	0.0777	0.0115	—	—	MAX
MIN	—	—	—	0.0003	0.0000	0.0000	0.0002	0.0000	0.0001	0.0003	—	—	MIN

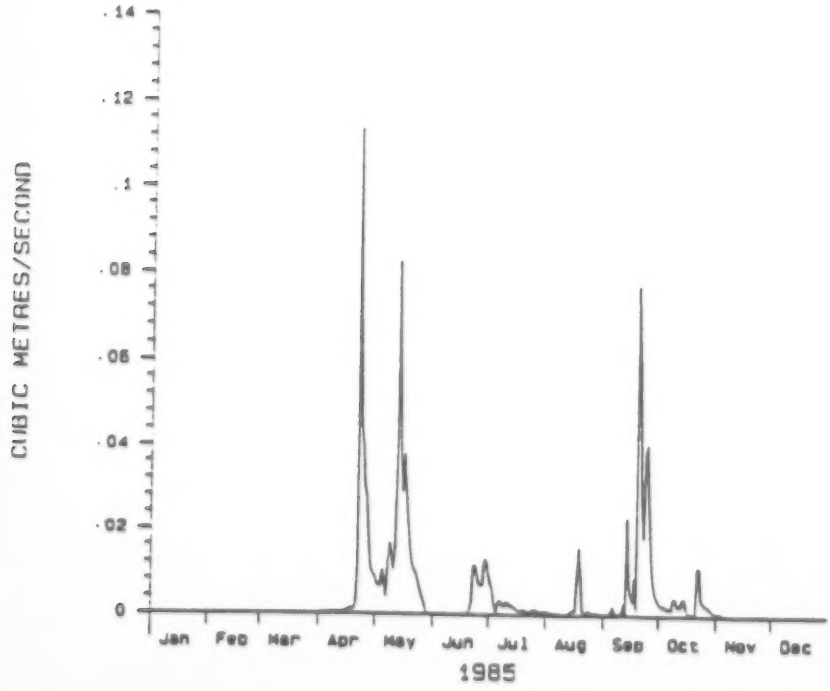
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	28305	39787	8148	4942	4063	32676	6947	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	124867	CUBIC METRES
MEAN DISCHARGE,	0.0070	CUBIC METRES/SEC
MAX. DAILY DISCHARGE,	0.1140	CUBIC METRES/SEC ON APR 22
MIN. DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 28
MAX. INSTANTANEOUS FLOW,	M	CUBIC METRES/SEC ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
NOTE: FLOW INFLUENCED BY BEAVER ACTIVITY FROM ABOUT AUG 13 TO END OF SEASON



LAKE 227 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0019 E	—	—	0.0008	0.0247	0.0019	0.0000	0.0000	0.0000	0.0000	—	—	1
2	—	—	—	0.0011	0.0194	0.0013	0.0000	0.0000	0.0000	0.0000	—	—	2
3	—	—	—	0.0002	0.0139	0.0008	0.0000	0.0000	0.0000	0.0000	—	—	3
4	—	—	—	0.0001	0.0100	0.0006	0.0000	0.0000	0.0000	0.0000	—	—	4
5	—	—	0.0009 A	0.0001	0.0105	0.0004	0.0000	0.0000	0.0000	0.0000	—	—	5
6	—	—	—	0.0002	0.0136	0.0003	0.0000	0.0000	0.0000	0.0000	—	—	6
7	—	—	—	0.0006	0.0174	0.0002	0.0000	0.0000	0.0000	0.0000	—	—	7
8	—	—	—	0.0013	0.0428	0.0001	0.0000	0.0000	0.0000	0.0000	—	—	8
9	—	—	—	0.0009	0.0245	0.0000	0.0000	0.0000	0.0000	0.0000	—	0.0007 A	9
10	—	—	—	0.0401	0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	10
11	—	—	—	0.0248	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	11
12	—	—	—	0.0126	0.0095	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	12
13	—	—	—	0.0010	0.0079	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	13
14	—	—	—	0.0007	0.0064	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	14
15	—	—	—	0.0010	0.0043	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	15
16	—	—	—	0.0011	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	16
17	—	0.0005 A	—	0.0011	0.0026	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	17
18	—	—	—	0.0012	0.0021	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	18
19	—	—	—	0.0024	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	19
20	—	—	—	0.0059	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	20
21	0.0012 A	—	—	0.0062	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	21
22	—	—	—	0.0055	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	22
23	—	—	—	0.0046	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	23
24	—	—	—	0.0047	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	24
25	—	—	—	0.0045	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	25
26	—	—	—	0.0123	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	26
27	—	—	0.0005 A	0.0196	0.0077	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	27
28	—	—	0.0005	0.0577	0.0078	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	28
29	—	—	0.0006	0.0403	0.0052	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	29
30	—	—	0.0006	0.0238	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	30
31	—	—	0.0007		0.0024		0.0000	0.0000		0.0000	—	0.0000 E	31
TOTAL	—	—	—	0.2727	0.2680	0.0056	0.0000	0.0000	0.0000	0.0000	—	—	TOTAL
MEAN	—	—	—	0.0091	0.0086	0.0002	0.0000	0.0000	0.0000	0.0000	—	—	MEAN
MAX	—	—	—	0.0577	0.0428	0.0019	0.0000	0.0000	0.0000	0.0000	—	—	MAX
MIN	—	—	—	0.0001	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

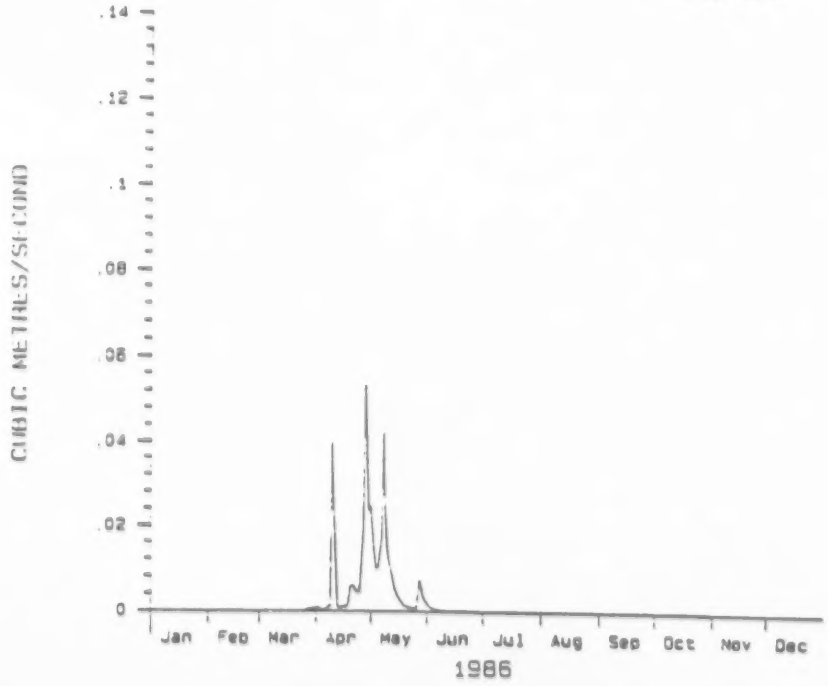
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	23527	23155	484	0	0	0	0	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	47166	CUBIC METRES	
MEAN DISCHARGE,	0.0026	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0577	CUBIC METRES/SEC	ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUN 07
INSTANTANEOUS FLOW,	M	CUBIC METRES/SEC	ON APR 10

A MANUAL OBSERVATION, NOW RECORDED VALUE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
NOTE: FLOW INFLUENCED BY BEAVER ACTIVITY UNTIL JUNE 01



LAKE 227 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0053	0.0006	0.0032	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0000 E	0.0042	0.0005	0.0035	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	2
3	----	----	0.0000 E	0.0036	0.0004	0.0027	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0000 E	0.0033	0.0002	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0036	0.0002	0.0021	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0037	0.0000	0.0019	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0039	0.0000	0.0019	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0038	0.0000	0.0014	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0036	0.0000	0.0012	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0000 E	0.0033	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0029	0.0000	0.0048	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	0.0000 E	0.0026	0.0000	0.0057	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0023	0.0000	0.0055	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0020	0.0000	0.0047	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0019	0.0000	0.0033	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	----	0.0000 E	0.0019	0.0000	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	16
17	----	0.0000 A	0.0000 E	0.0019	0.0000	0.0018	0.0000	0.0000	0.0000	0.0000	----	0.0000 A	17
18	----	----	0.0000 E	0.0018	0.0000	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	18
19	----	----	0.0000 E	0.0018	0.0000	0.0009	0.0000	0.0000	0.0000	0.0000	----	----	19
20	0.0000 A	----	0.0000 E	0.0017	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	----	----	20
21	----	----	0.0020 E	0.0016	0.0017	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	0.0040 E	0.0016	0.0037	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	0.0060 E	0.0015	0.0037	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0079 A	0.0014	0.0037	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	0.0098	0.0013	0.0039	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0104	0.0012	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0101	0.0011	0.0067	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0093	0.0011	0.0064	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0081	0.0010	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0072	0.0008	0.0045	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0062		0.0034		0.0000	0.0000		0.0000	----	0.0000 E	31
TOTAL	----	----	0.0810	0.0717	0.0515	0.0531	0.0000	0.0000	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0026	0.0024	0.0017	0.0018	0.0000	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0104	0.0053	0.0067	0.0057	0.0000	0.0000	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

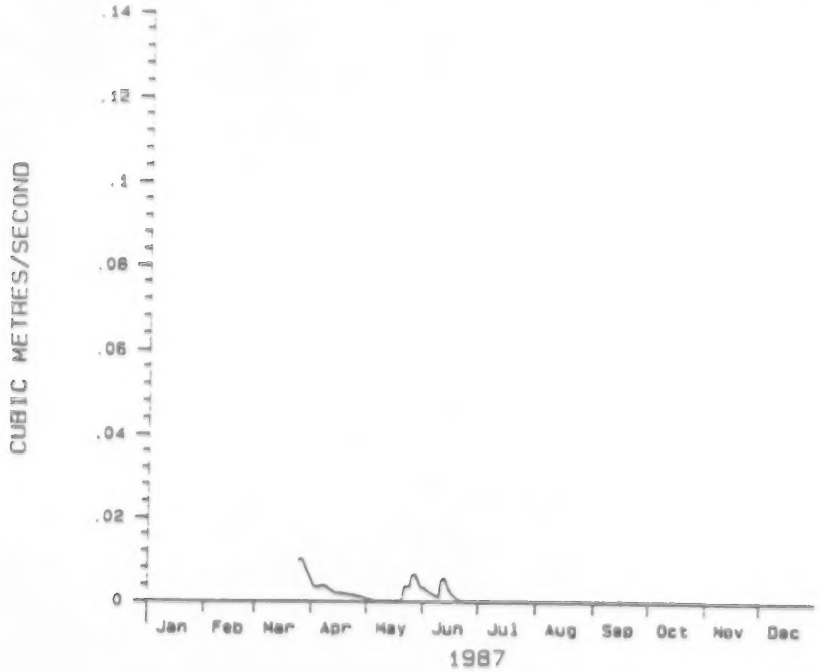
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	6998	6195	4450	4588	0	0	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	22231	CUBIC METRES
MEAN DISCHARGE,	0.0011	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0104	CUBIC METRES/SEC ON MAR 26
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 06
MAX INSTANTANEOUS FLOW,	0.0105	CUBIC METRES/SEC ON MAR 26

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE ERIE
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	28.998 A	29.061	29.018	28.943	28.960 E	28.934	29.020	—	—	1
2	—	—	—	29.002	29.054	29.019	28.962	28.962 E	28.935	29.028	—	—	2
3	—	—	—	29.004	29.048	29.014	29.115	28.964 E	28.934	29.033	—	—	3
4	—	—	—	29.005	29.052	29.007	29.124	28.966 E	28.931	29.032	—	—	4
5	—	—	—	29.004	29.361	29.000	29.106	28.967 A	28.928	29.030	—	—	5
6	—	—	—	29.002 E	29.062	28.997	29.096	28.967	28.925	29.026	—	—	6
7	—	—	—	29.000 A	29.054	29.007	29.078	28.961	28.923	29.095	—	—	7
8	—	—	—	29.002	29.046	29.027	29.059	28.961	28.922	29.094	—	—	8
9	—	—	—	28.998	29.039	29.015	29.042	28.959	28.922	29.382	—	—	9
10	—	—	—	28.994	29.036	29.033	29.034	28.956	28.920	29.085	—	—	10
11	—	—	—	28.995	29.036	29.033	29.023	28.951	28.919	29.093	—	—	11
12	—	—	—	28.994	29.032	29.028	29.016	28.947	28.924	29.086	—	—	12
13	—	—	—	28.997	29.027	29.022	29.006	28.949	28.924	29.074	—	—	13
14	—	—	—	28.995	29.027	29.021	28.999	28.948	28.922	29.059	—	—	14
15	—	—	—	29.003	29.027	29.014	28.995	28.945	28.919	29.047	—	—	15
16	—	—	—	29.047	29.028	29.009	28.997	28.941	28.916	29.039	—	—	16
17	—	—	—	29.083	29.037	29.000	29.010	28.938	28.913	29.032	—	—	17
18	—	—	—	29.086	29.067	28.996	29.034 A	28.936	28.914	29.028	—	—	18
19	—	—	—	29.078	29.087	28.998	28.997 E	28.933	28.911	29.023	—	—	19
20	—	—	—	29.072	29.381	28.994	28.990 E	28.930	28.910	29.017	—	—	20
21	—	—	—	29.065	29.064	28.983 A	28.984 E	28.932	28.909	29.013	—	—	21
22	—	—	—	29.069	29.052	28.979 E	28.978 E	28.934	28.906	29.009	—	—	22
23	—	—	—	29.099	29.040	28.975 E	28.975 E	28.932	28.933	29.006	—	—	23
24	—	—	—	29.134	29.033	28.971 E	28.980 E	28.932	28.953	29.003	—	—	24
25	—	—	—	29.144	29.024	28.967 E	28.988 E	28.934	28.952	29.002	—	—	25
26	—	—	—	29.124	29.017	28.963 E	28.982 E	28.929	28.950	29.000	—	—	26
27	—	—	—	29.100	29.009	28.959 E	28.975 E	28.925	28.954	28.998	—	—	27
28	—	—	—	29.086	29.002	28.955 E	28.968 E	28.921	29.005	28.998	—	—	28
29	—		—	29.075	28.997	28.951 E	28.964 E	28.924	29.026	28.999	—	—	29
30	—		—	29.069	28.993	28.947 A	28.962 E	28.924	29.024	28.998	—	—	30
31	—		—		29.004		28.960 E	28.925		28.995		—	31
MEAN	—	—	—	29.044	29.059	28.995	29.010	28.944	28.935	29.033	—	—	MEAN
MAX	—	—	—	29.144	29.087	29.033	29.124	28.967	29.026	29.094	—	—	MAX
MIN	—	—	—	28.993	28.993	28.947	28.943	28.921	28.906	28.995	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.144 METRES ON APR 25
MINIMUM DAILY WATER LEVEL, 28.906 METRES ON SEP 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.147 METRES AT 0600 ON APR 25

LAKE ERIE
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	29.058	29.058 E	29.012	28.980	28.946	28.877	28.859	28.859	—	1
2	—	—	—	29.065	29.050 E	29.009	28.987	28.941	28.872	28.860	28.857	—	2
3	—	—	—	29.070	29.044 E	29.009	28.997	28.937	28.866	28.862	28.856 A	—	3
4	—	—	—	29.072	29.039 E	29.013	29.014	28.936	28.860	28.862	—	—	4
5	—	—	—	29.072	29.036 E	29.014	29.017	28.933	28.860	28.867	—	—	5
6	—	—	—	29.074	29.029 E	29.009	29.016	28.931	28.859	28.870	—	—	6
7	—	—	—	29.072	29.025 E	29.001	29.012	28.923	28.863	28.867	—	—	7
8	—	—	—	29.071	29.019 E	28.995	29.010	28.918	28.861	28.866	—	—	8
9	—	—	—	29.071	29.014 E	28.992	29.002	28.911	28.865	28.862	—	—	9
10	—	—	—	29.071	29.013 E	28.987	28.996	28.909	28.862	28.864	—	—	10
11	—	—	—	29.072	29.015 E	28.985	28.990	28.906	28.857	28.870	—	—	11
12	—	—	—	29.074	29.024 E	28.980	28.985	28.905	28.851	28.869	—	—	12
13	—	—	—	29.071	29.045 E	28.980	28.977	28.898	28.848	28.869	—	—	13
14	—	—	—	29.063	29.052 E	29.034	28.973	28.895	28.847	28.867	—	—	14
15	—	—	—	29.058	29.047 E	29.057	28.968	28.892	28.846	28.866	—	—	15
16	—	—	—	29.050	29.042 E	29.059	28.978	28.887	28.845	28.867	—	—	16
17	—	—	—	29.041	29.038 E	29.052	28.980	28.883	28.846	28.867	—	—	17
18	—	—	—	29.034	29.035 E	29.042	28.974	28.881	28.856	28.865	—	—	18
19	—	—	—	29.029	29.036 E	29.032	28.974	28.890	28.850	28.861	—	—	19
20	—	—	—	29.027	29.034 E	29.024	28.971	28.895	28.851	28.859	—	—	20
21	—	—	—	29.034 A	29.034 E	29.019	28.967	28.900	28.854	28.860	—	—	21
22	—	—	—	29.054 E	29.037 E	29.026	28.964	28.900	28.851	28.860	—	—	22
23	—	—	—	29.063 E	29.037 E	29.024	28.958	28.897	28.850	28.856	—	—	23
24	—	—	—	29.067 E	29.038 E	29.021	28.953	28.893	28.848	28.851	—	—	24
25	—	—	—	29.081 E	29.035 A	29.013	28.949	28.892	28.847	28.851	—	—	25
26	—	—	—	29.090 E	29.029	29.008	28.945	28.891	28.847	28.860	—	—	26
27	—	—	—	29.082 E	29.021	28.997	28.941	28.887	28.845	28.860	—	—	27
28	—	—	—	29.075 A	29.023	28.999	28.942	28.886	28.846	28.862	—	—	28
29	—		28.458 A	29.070 E	29.022	28.986	28.940	28.895	28.845	28.859	—	—	29
30	—		29.046	29.063 E	29.020	28.992	28.937	28.893	28.847	28.858	—	—	30
31	—		29.048		29.016		28.945	28.880		28.858		—	31
MEAN	—	—	—	29.063	29.053	29.012	28.976	28.904	28.854	28.863	—	—	MEAN
MAX	—	—	—	29.090	29.058	29.059	29.017	28.946	28.877	28.870	—	—	MAX
MIN	—	—	—	29.027	29.013	28.980	28.937	28.880	28.845	28.856	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.090 METRES ON APR 26
MINIMUM DAILY WATER LEVEL, 28.845 METRES ON SEP 27
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.095 METRES AT 1800 ON APR 12

LAKE 227
MEAN DAILY WATER LEVEL IN METRES FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	28.987	29.054	28.974	29.038	28.952	28.848	28.851	—	—	1
2	—	—	—	28.984	29.052	28.968	29.033	28.949	28.845	28.829	—	—	2
3	—	—	—	28.985	29.053	28.962	29.031	28.944	28.844	28.829	—	—	3
4	—	—	—	28.987	29.054	28.959	29.025	28.940	28.844	28.826	—	—	4
5	—	—	—	28.988	29.051	28.979	29.020	28.938	28.841	28.825	—	—	5
6	—	—	—	28.991	29.051	28.985	29.013	28.939	28.837	28.826	—	—	6
7	—	—	—	29.001	29.063	29.002	29.009	28.932	28.836	28.826	—	—	7
8	—	—	—	29.010	29.067	29.015	29.004	28.926	28.841	28.827	—	—	8
9	—	—	—	29.020	29.062	29.015	28.999	28.932	28.847	28.826	—	—	9
10	—	—	—	29.029	29.058	29.036	28.991	28.925	28.850	28.827	—	—	10
11	—	—	—	29.061	29.059	29.036	28.995	28.925	28.851	28.826	—	—	11
12	—	—	—	29.077	29.055	29.039	28.983	28.920	28.853	28.826	—	—	12
13	—	—	—	29.080	29.051	29.036	28.987	28.920	28.855	28.828	—	—	13
14	—	—	—	29.093	29.043	29.062	28.992	28.918	28.851	28.854	—	—	14
15	—	—	—	29.087	29.034	29.062	28.986	28.916	28.849	28.866	—	—	15
16	—	—	—	29.083	29.025	29.058	28.986	28.911	28.845	28.871	—	—	16
17	—	—	—	29.075	29.021	29.052	28.989	28.906	28.843	28.920	—	—	17
18	—	—	—	29.066	29.014	29.048	28.986	28.902	28.842	28.934	—	—	18
19	—	—	—	29.064	29.012	29.043	28.982	28.897	28.839	28.962	—	—	19
20	—	—	—	29.056	29.010	29.034	28.976	28.899	28.837	28.997	—	—	20
21	—	—	—	29.049	29.014	29.033	28.978	28.901	28.839	29.022	—	—	21
22	—	—	—	29.044	29.014	29.046	28.977	28.897	28.838	29.045	—	—	22
23	—	—	—	29.038	29.010	29.047	28.974	28.899	28.833	29.058	—	—	23
24	—	—	—	29.031	29.006	29.043	28.972	28.888	28.835	29.065	—	—	24
25	—	—	—	29.029	29.002	29.038	28.964	28.884	28.837	29.067	—	—	25
26	—	—	—	29.028	28.999	29.044	28.960	28.882	28.838	29.069	—	—	26
27	—	—	—	29.076	28.994	29.059	28.959	28.878	28.838	29.071	—	—	27
28	—	—	—	29.052	28.990	29.055	28.952	28.874	28.837	29.074	—	—	28
29	—		—		28.985	29.051	28.950	28.866	28.835	29.072	—	—	29
30	—		28.985	29.056	28.980	29.045	28.952	28.857	28.834	29.069	—	—	30
31	—		28.987		28.976		28.956	28.852		29.066 A		—	31
			28.984										
MEAN	—	—	28.985	29.034	29.028	59.029	28.987	28.908	28.842	28.950	—	—	MEAN
MAX	—	—	28.987	29.093	29.067	29.047	29.038	28.952	28.855	29.071	—	—	MAX
MIN	—	—	28.984	28.984	28.976	28.959	28.950	28.852	28.833	29.074	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.093 METRES ON APR 14
MINIMUM DAILY WATER LEVEL, 28.825 METRES ON OCT 5
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.096 METRES AT 742 ON APR 14

LAKE 227
MEAN DAILY WATER LEVEL IN METRES FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	28.991 B	29.100	29.058	29.115	28.999	29.140	29.013	29.053	—	1
2	—	—	—	—	29.095	29.052	29.103	28.993	29.142	29.012	29.052	—	2
3	—	—	—	—	29.089	29.051	29.097	28.987	29.155	29.014	29.051	—	3
4	—	—	—	28.991	29.094	29.051	29.096	28.992	29.161	29.013	29.048	—	4
5	—	—	—	28.991	29.108	29.051	29.097	28.994	29.164	29.014	29.047	—	5
6	—	—	—	28.991	29.119	29.051	29.087	28.994	29.162	29.014	29.053 A	—	6
7	—	—	—	28.992	29.138	29.051	29.081	28.992	29.157	29.016	—	—	7
8	—	—	—	28.991	29.130	29.051	29.072	28.985	29.154	29.036	—	—	8
9	—	—	—	28.991	29.118	29.051	29.065	28.982	29.151	29.059	—	—	9
10	—	—	—	28.991	29.103	29.058	29.053	28.976	29.146	29.036	—	—	10
11	—	—	—	28.991	29.124	29.043	29.042	28.975	29.140	29.035	—	—	11
12	—	—	—	28.991	29.169	29.042	29.055	28.982	29.132	29.041	—	—	12
13	—	—	—	28.992	29.240	29.042	29.050	29.016	29.112	29.062	—	—	13
14	—	—	—	29.000	29.177	29.041	29.025	29.027	29.077	29.074	—	—	14
15	—	—	—	29.012	29.155	29.050	29.016	29.027	29.065	29.085	—	—	15
16	—	—	—	29.051	29.174	29.060	29.014	29.028	29.061	29.088	—	—	16
17	—	—	—	29.040	29.149	29.079	29.008	29.078	29.053	29.093	—	—	17
18	—	—	—	29.051	29.122	29.076	29.012	29.113	29.044	29.095	—	—	18
19	—	—	—	29.069	29.102	29.072	29.024	29.109	29.160	29.099	—	—	19
20	—	—	—	29.096	29.088	29.067	29.017	29.110	29.202	29.102	—	—	20
21	—	—	—	29.149	29.073	29.064	29.011	29.112	29.169	29.097	—	—	21
22	—	—	—	29.276	29.061	29.120	29.001	29.124	29.154	29.076	—	—	22
23	—	—	—	29.220	29.052	29.126	29.022	29.140	29.129	29.067	—	—	23
24	—	—	—	29.187	29.046	29.111	29.055	29.147	29.077	29.064	—	—	24
25	—	—	—	29.166	29.059	29.107	29.034	29.150	29.045	29.061	—	—	25
26	—	—	—	29.143	29.035	29.106	29.028	29.150	29.053	29.058	—	—	26
27	—	—	—	29.128	29.029	29.110	29.025	29.150	29.024	29.054	—	—	27
28	—	—	—	29.119	29.023	29.134	29.022	29.147	29.021	29.052	—	—	28
29	—		—	29.113	29.030	29.133	29.015	29.142	29.017	29.052	—	—	29
30	—		—	29.106	29.042	29.125	29.010	29.140	29.014	29.052	—	—	30
31	—		—		29.050	29.056	29.004	29.139		29.052		—	31
MEAN	—	—	—	29.065	29.099	29.074	29.042	29.061	29.109	29.054	—	—	MEAN
MAX	—	—	—	29.276	29.240	29.134	29.115	29.150	29.202	29.102	—	—	MAX
MIN	—	—	—	28.991	29.029	29.041	29.001	28.975	29.014	29.012	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
M MISSING RECORD
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.276 METRES ON APR 22
MINIMUM DAILY WATER LEVEL, 28.975 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.337 METRES AT 2300 ON APR 21

LAKE 227
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	29.007	29.256	28.944	28.897	28.875	28.838	28.912	----	----	1
2	----	----	----	29.022	29.243	28.937	28.896	28.874	28.850	28.917	----	----	2
3	----	----	----	29.039	29.229	28.932	28.882	28.874	28.883	28.916	----	----	3
4	----	----	----	29.060	29.220	28.927	28.886	28.875	28.895	28.917	----	----	4
5	----	----	----	29.086	29.240	28.922	28.913	28.878	28.895	28.915	----	----	5
6	----	----	----	29.113	29.246	28.918	28.919	28.876	28.892	28.917	----	----	6
7	----	----	----	29.146	29.220	28.918	28.914	28.880	28.890	28.919	----	----	7
8	----	----	----	29.180	29.184	28.913	28.910	28.880	28.886	28.916	----	----	8
9	----	----	----	29.158	29.116	28.909	28.909	28.878	28.883	28.915	----	----	9
10	----	----	----	29.184	29.096	28.906	28.906	28.875	28.880	28.920	----	----	10
11	----	----	----	29.150	29.083	28.902	28.910	28.870	28.879	28.920	----	----	11
12	----	----	----	29.179	29.072	28.899	28.913	28.867	28.886	28.919	----	----	12
13	----	----	----	29.112	29.064	28.894	28.912	28.865	28.884	28.920	----	----	13
14	----	----	----	29.121	29.054	28.890	28.911	28.865	28.881	28.920	----	----	14
15	----	----	----	29.130	29.049	28.889	28.909	28.864	28.878	28.920	----	----	15
16	----	----	----	29.136	29.043	28.889	28.907	28.882	28.875	29.920	----	----	16
17	----	----	----	29.140	29.039	28.884	28.906	28.876	28.882	28.920	----	----	17
18	----	----	----	29.144	29.035	28.881	28.905	28.871	28.885	28.920	----	----	18
19	----	----	----	29.169	29.032	28.877	28.901	28.874	28.883	28.920	----	----	19
20	----	----	----	29.199	29.029	28.883	28.899	28.878	28.882	28.921	----	----	20
21	----	----	----	29.206	29.025	28.892	28.897	28.872	28.887	28.920	----	----	21
22	----	----	----	29.226	29.020	28.892	28.893	28.868	28.892	28.920	----	----	22
23	----	----	----	29.222	29.016	28.895	28.894	28.866	28.892	28.919	----	----	23
24	----	----	----	29.194	29.013	28.880	28.894	28.862	28.895	28.918	----	----	24
25	----	----	----	29.189	29.010	28.889	28.890	28.863	28.899	28.917	----	----	25
26	----	----	----	29.217	29.007	28.899	28.886	28.857	28.904	28.916	----	----	26
27	----	----	28.986 A	29.232	29.002	28.900	28.889	28.853	28.906	28.916	----	----	27
28	----	----	28.985	29.285	28.987	28.895	28.888	28.848	28.906	28.915	----	----	28
29	----		28.984	29.276	28.973	28.890	28.887	28.845	28.908	28.914	---	----	29
30	----		28.988	29.251	28.962	28.887	28.884	28.841	28.908	28.913	----	----	30
31	----		28.994		28.952		28.877	28.841		28.917 A		----	31
MEAN	----	----	----	29.156	29.080	28.901	28.899	28.868	28.887	28.918	----	----	MEAN
MAX	----	----	----	29.285	29.256	28.944	28.919	28.882	28.908	28.921	----	----	MAX
MIN	----	----	----	29.007	28.952	28.877	28.877	28.841	28.838	28.912	----	----	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.285 METRES ON APR 29
MINIMUM DAILY WATER LEVEL, 28.838 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.297 METRES AT 19:47 ON APR 28

LAKE 227
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	28.972	28.930	28.954	28.902	28.880	28.889	28.839	28.828	----	1
2	----	----	----	28.966	28.927	28.960	28.908	28.877	28.895	28.833	28.828 A	----	2
3	----	----	----	28.959	28.924	28.955	28.907	28.873	28.899	28.831	----	----	3
4	----	----	----	28.955	28.921	28.953	28.903	28.866	28.894	28.829	----	----	4
5	----	----	----	28.956	28.918	28.949	28.900	28.862	28.881	28.833	----	----	5
6	----	----	----	28.957	28.915	28.948	28.897	28.866	28.871	28.832	----	----	6
7	----	----	----	28.970	28.912	28.948	28.893	28.864	28.869	28.830	----	----	7
8	----	----	----	28.990	28.909	28.943	28.885	28.862	28.866	28.831	----	----	8
9	----	----	----	29.006	28.905	28.939	28.879	28.859	28.863	28.829	----	----	9
10	----	----	----	29.013	28.901	28.936	28.873	28.855	28.863	28.837	----	----	10
11	----	----	----	29.010	28.897	28.978	28.871	28.870	28.862	28.835	----	----	11
12	----	----	----	29.004	28.893	28.986	28.877	28.906	28.854	28.833	----	----	12
13	----	----	----	28.999	28.897	28.981	28.876	28.906	28.864	28.832	----	----	13
14	----	----	----	28.992	28.903	28.972	28.873	28.905	28.863	28.830	----	----	14
15	----	----	----	28.986	28.900	28.962	28.873	28.905	28.861	28.828	----	----	15
16	----	----	----	28.983	28.901	28.954	28.873	28.918	28.859	28.828	----	----	16
17	----	----	----	28.979	28.902	28.946	28.871	28.919	28.857	28.827	----	----	17
18	----	----	----	28.975	28.898	28.940	28.868	28.918	28.856	28.825	----	----	18
19	----	----	----	28.972	28.895	28.934	28.879	28.916	28.856	28.824	----	----	19
20	----	----	----	28.969	28.894	28.928	28.880	28.914	28.855	28.825	----	----	20
21	----	----	----	28.964	28.933	28.924	28.877	28.911	28.854	28.824	----	----	21
22	----	----	----	28.961	28.960	28.922	28.892	28.906	28.852	28.823	----	----	22
23	----	----	----	28.957	28.962	28.917	28.894	28.902	28.849	28.823	----	----	23
24	----	----	28.993 A	28.953	28.951	28.911	28.881	28.900	28.847	28.823	----	----	24
25	----	----	29.002	28.950	28.960	28.908	28.881	28.897	28.844	28.824	----	----	25
26	----	----	29.004	28.949	28.972	28.912	28.886	28.895	28.841	28.827	----	----	26
27	----	----	29.003	28.947	28.974	28.913	28.891	28.893	28.840	28.830	----	----	27
28	----	----	28.998	28.941	28.973	28.909	28.876	28.890	28.840	28.830	----	----	28
29	----		28.988	28.935	28.968	28.905	28.871	28.889	28.840	28.830	----	----	29
30	----		28.983	28.932	28.962	28.903	28.866	28.895	28.837	28.829	----	----	30
31	----		28.977		28.955	28.902	28.874	28.889		28.828		----	31
MEAN	----	----	----	28.970	28.926	28.938	28.882	28.891	28.860	28.829	----	----	MEAN
MAX	----	----	----	29.013	28.974	28.986	28.908	28.919	28.895	28.838	----	----	MAX
MIN	----	----	----	28.932	28.893	28.902	28.866	28.855	28.837	28.823	----	----	MIN

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.013 METRES ON APR 10
MINIMUM DAILY WATER LEVEL, 28.823 METRES ON OCT 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.013 METRES AT 02:30 ON APR 11

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE IN METRES
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

LAKE 239 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0098	0.0058 E	0.0049	0.0069	0.1070	0.0438	0.0085	0.0171	0.0022	0.0381	0.0344	0.0132	1
2	0.0107	0.0056 E	0.0050	0.0076	0.0981	0.0444	0.0107	0.0163	0.0023	0.0473	0.0320	0.0127	2
3	0.0110	0.0056 E	0.0047	0.0102	0.0889	0.0410	0.0573	0.0179	0.0021	0.0541	0.0299	0.0143	3
4	0.0103	0.0056 E	0.0045	0.0106	0.0970	0.0375	0.0833	0.0170	0.0020	0.0572	0.0258	0.0151	4
5	0.0100	0.0052 E	0.0044	0.0102	0.0884	0.0349	0.0952	0.0159	0.0015	0.0571	0.0240	0.0148	5
6	0.0111	0.0052 E	0.0043	0.0100	0.0818	0.0326	0.1090	0.0147	0.0012	0.0562	0.0226	0.0152	6
7	0.0108	0.0051 E	0.0045	0.0096	0.0764	0.0766	0.1040	0.0141	0.0010	0.0944	0.0212	0.0149	7
8	0.0104	0.0051 E	0.0040	0.0091	0.0717	0.0358	0.0952	0.0133	0.0008	0.1130	0.0196	0.0145	8
9	0.0100	0.0049 A	0.0037	0.0091	0.0669	0.0775	0.0866	0.0103	0.0038	0.1130	0.0186	0.0134	9
10	0.0087	0.0052	0.0037	0.0094	0.0642	0.0441	0.0792	0.0089	0.0009	0.1280	0.0181	0.0124	10
11	0.0085	0.0050	0.0039	0.0093	0.0620	0.0452	0.0715	0.0081	0.0011	0.1420	0.0191	0.0120	11
12	0.0084	0.0049	0.0043	0.0091	0.0591	0.0434	0.0655	0.0073	0.0010	0.1430	0.0140	0.0114	12
13	0.0079	0.0048	0.0058	0.0090	0.0542	0.0412	0.0630	0.0072	0.0011	0.1380	0.0125	0.0106	13
14	0.0075	0.0042	0.0059	0.0128	0.0533	0.0419	0.0564	0.0065	0.0007	0.1300	0.0113	0.0104	14
15	0.0073	0.0044	0.0056	0.0440	0.0511	0.0393	0.0517	0.0059	0.0003	0.1170	0.0109	0.0096	15
16	0.0073 A	0.0045	0.0058	0.1690	0.0508	0.0363	0.0486	0.0055	0.0003	0.1070	0.0104	0.0093	16
17	0.0068 E	0.0055	0.0061	0.2500	0.0525	0.0343	0.0561	0.0048	0.0003	0.0979	0.0098	0.0087	17
18	0.0066 E	0.0057	0.0066	0.2400	0.0673	0.0322	0.0544	0.0043	0.0002	0.0915	0.0099	0.0089	18
19	0.0064 E	0.0066	0.0061	0.2240	0.0807	0.0296	0.0501	0.0040	0.0001	0.0826	0.0101	0.0088	19
20	0.0068 E	0.0063	0.0064	0.2130	0.0811	0.0267	0.0455	0.0033	0.0000	0.0758	0.0130	0.0086	20
21	0.0064 E	0.0059	0.0059	0.1990	0.0774	0.0252	0.0417	0.0028	0.0000	0.0701	0.0168	0.0085	21
22	0.0062 E	0.0062	0.0054	0.1940	0.0693	0.0228	0.0367	0.0036	0.0000	0.0642	0.0177	0.0080	22
23	0.0075 E	0.0060	0.0055	0.1950	0.0691	0.0211	0.0330	0.0035	0.0011	0.0580	0.0177	0.0085	23
24	0.0073 E	0.0046	0.0059	0.1920	0.0647	0.0198	0.0391	0.0029	0.0026	0.0541	0.0167	0.0066	24
25	0.0071 E	0.0043	0.0058	0.1840	0.0580	0.0188	0.0366	0.0026	0.0029	0.0500	0.0168	0.0082	25
26	0.0068 E	0.0043	0.0055	0.1680	0.0538	0.0163	0.0335	0.0020	0.0032	0.0473	0.0167	0.0079	26
27	0.0068 E	0.0045	0.0055	0.1530	0.0502	0.0144	0.0309	0.0015	0.0030	0.0454	0.0155	0.0075	27
28	0.0066 E	0.0047	0.0053	0.1370	0.0453	0.0127	0.0281	0.0011	0.0185	0.0426	0.0148	0.0068	28
29	0.0064 E		0.0048	0.1250	0.0416	0.0115	0.0258	0.0012	0.0343	0.0407	0.0146	0.0067	29
30	0.0062 E		0.0054	0.1140	0.0384	0.0095	0.0242	0.0010	0.0376	0.0393	0.0141	0.0064	30
31	0.0060 E		0.0065		0.0409		0.0211	0.0017		0.0362		0.0061	31
TOTAL	0.2496	0.1405	0.1617	2.9333	2.0512	0.9305	1.6415	0.2272	0.1231	2.4311	0.5281	0.3219	TOTAL
MEAN	0.0081	0.0050	0.0052	0.0978	0.0662	0.0310	0.0530	0.0073	0.0041	0.0784	0.0176	0.0104	MEAN
MAX	0.0111	0.0068	0.0066	0.2500	0.1070	0.0452	0.1090	0.0179	0.0376	0.1430	0.0344	0.0152	MAX
MIN	0.0060	0.0042	0.0037	0.0069	0.0384	0.0095	0.0085	0.0010	0.0000	0.0362	0.0098	0.0061	MIN

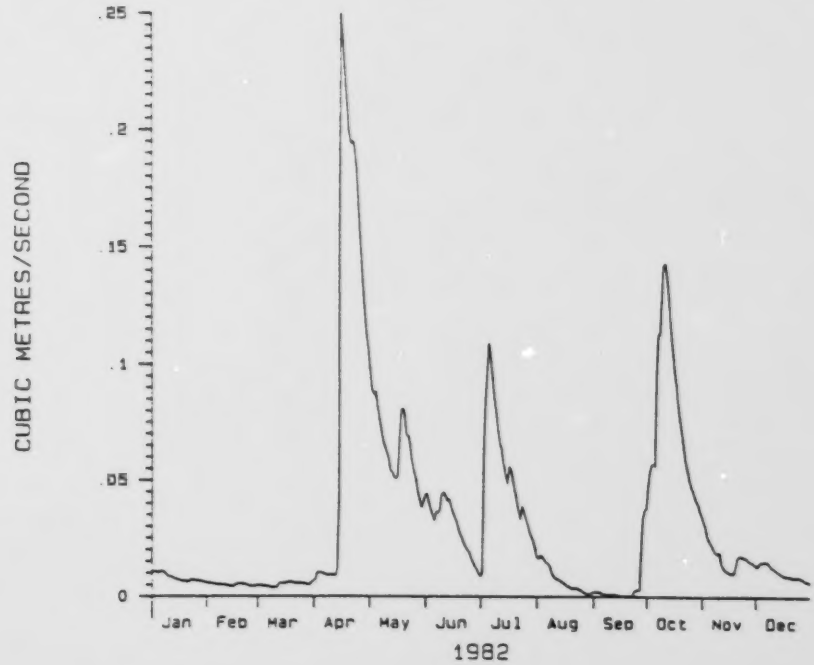
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
21565	12139	13971	253477	177224	80395	141826	19639	10636	210047	45629	27812

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	1014319	CUBIC METRES	
MEAN DISCHARGE,	0.0320	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.2500	CUBIC METRES/SEC	ON APR 17
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON SEP 20
MAX INSTANTANEOUS FLOW,	0.2550	CUBIC METRES/SEC	ON APR 17

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 299 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		DAY
1	0.0063	0.0045	0.0058	0.0078	0.0684	0.0245	0.0168	0.0025	0.0000	0.0000	0.0000	0.0000		1
2	0.0059	0.0041	0.0058	0.0107	0.0653	0.0227	0.0160	0.0019	0.0000	0.0000	0.0000	0.0000		2
3	0.0055	0.0037	0.0060	0.0124	0.0623	0.0222	0.0185	0.0017	0.0000	0.0000	0.0000	0.0000		3
4	0.0051	0.0036	0.0063	0.0129	0.0602	0.0230	0.0238	0.0012	0.0000	0.0000	0.0000	0.0000		4
5	0.0058	0.0038	0.0071	0.0145	0.0569	0.0221	0.0249	0.0017	0.0000	0.0000	0.0000	0.0000		5
6	0.0055	0.0034	0.0075	0.0159	0.0526	0.0198	0.0242	0.0013	0.0000	0.0000	0.0000	0.0000		6
7	0.0050	0.0031	0.0087	0.0185	0.0487	0.0176	0.0240	0.0010	0.0000	0.0000	0.0000	0.0000		7
8	0.0044	0.0029	0.0091	0.0232	0.0459	0.0166	0.0234	0.0005	0.0000	0.0000	0.0000	0.0000		8
9	0.0074	0.0029	0.0094	0.0330	0.0412	0.0149	0.0209	0.0003	0.0000	0.0000	0.0000	0.0000		9
10	0.0091	0.0029	0.0092	0.0445	0.0395	0.0145	0.0190	0.0003	0.0000	0.0000	0.0000	0.0000		10
11	0.0090	0.0034	0.0095	0.0613	0.0403	0.0138	0.0159	0.0000	0.0000	0.0000	0.0000	0.0000		11
12	0.0091	0.0036	0.0092	0.0816	0.0413	0.0132	0.0144	0.0000	0.0000	0.0000	0.0000	0.0000		12
13	0.0084	0.0037	0.0089	0.0962	0.0481	0.0131	0.0127	0.0000	0.0000	0.0000	0.0000	0.0000	A	13
14	0.0094	0.0034	0.0088	0.0977	0.0478	0.0289	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000		14
15	0.0093	0.0036	0.0085	0.0928	0.0456	0.0389	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000		15
16	0.0089	0.0035	0.0079	0.0857	0.0435	0.0420	0.0126	0.0000	0.0000	0.0000	0.0000	0.0000		16
17	0.0086	0.0036	0.0079	0.0806	0.0407	0.0425	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000		17
18	0.0080	0.0038	0.0074	0.0760	0.0416	0.0426	0.0107	0.0000	0.0000	0.0000	0.0000	0.0000		18
19	0.0075	0.0036	0.0071	0.0738	0.0407	0.0390	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000		19
20	0.0071	0.0052	0.0066	0.0739	0.0388	0.0359	0.0097	0.0000	0.0000	0.0000	0.0000	0.0000		20
21	0.0074	0.0047	0.0063	0.0762	0.0358	0.0346	0.0081	0.0000	0.0000	0.0000	0.0000	0.0000		21
22	0.0070	0.0044	0.0055	0.0801	0.0391	0.0370	0.0072	0.0000	0.0000	0.0000	0.0000	0.0000		22
23	0.0064	0.0043	0.0051	0.0817	0.0408	0.0355	0.0055	0.0000	0.0000	0.0000	0.0000	0.0000		23
24	0.0[illegible]	0.0041	0.0051	0.0803	0.0415	0.0322	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000		24
25	0.0[illegible]	0.0040	0.0048	0.0782	0.0381	0.0292	0.0033	0.0000	0.0000	0.0000	0.0000	0.0000		25
26	0.0063	0.0040	0.0050	0.0785	0.0350	0.0264	0.0026	0.0000	0.0000	0.0000	0.0000	0.0000		26
27	0.0061	0.0047	0.0048	0.0774	0.0322	0.0215	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000		27
28	0.0049	0.0056	0.0047	0.0761	0.0304	0.0191	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000		28
29	0.0050		0.0043	0.0755	0.0321	0.0169	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000		29
30	0.0052		0.0044	0.0732	0.0295	0.0175	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000		30
31	0.0048		0.0051		0.0253		0.0029	0.0000		0.0000		0.0000		31
TOTAL	0.2086	0.1100	0.2110	1.7902	1.3492	0.7777	0.3757	0.0124	0.0000	0.0000	0.0000	0.0000		TOTAL
MEAN	0.0067	0.0039	0.0068	0.0597	0.0435	0.0259	0.0121	0.0004	0.0000	0.0000	0.0000	0.0000		MEAN
MAX	0.0094	0.0056	0.0095	0.0977	0.0684	0.0426	0.0249	0.0025	0.0000	0.0000	0.0000	0.0000		MAX
MIN	0.0044	0.0029	0.0043	0.0078	0.0253	0.0131	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000		MIN

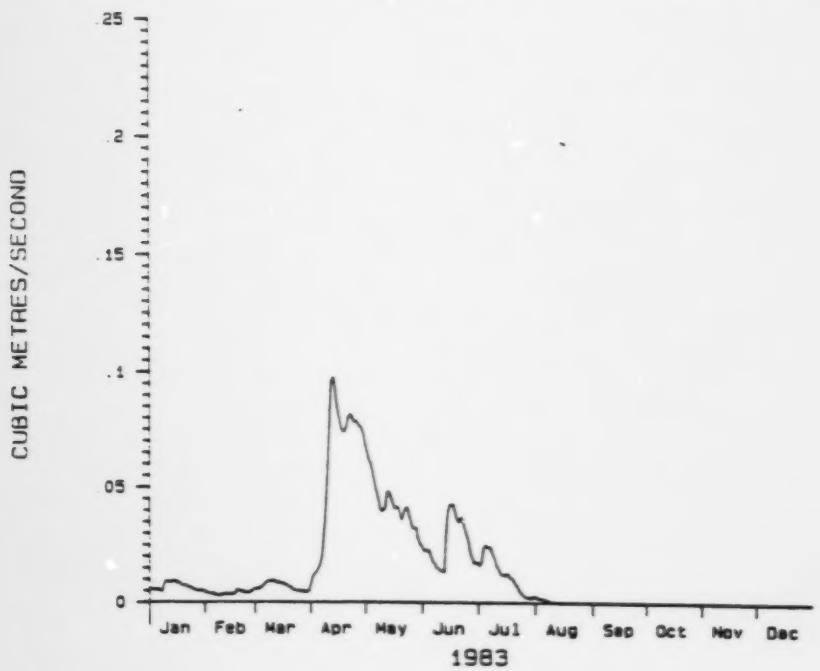
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
18023	9504	18230	154674	116571	67193	32460	1071	0	0	0	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	417728	CUBIC METRES		
MEAN DISCHARGE,	0.0137	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.0977	CUBIC METRES/SEC	ON APR 14	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON AUG 11	
MAX INSTANTANEOUS FLOW,	0.0992	CUBIC METRES/SEC	ON APR 14	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 239 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000	0.0000	0.0000	0.0000	0.0439	0.0108	0.0168	0.0004	0.0000	0.0000	0.0247	0.0253	1
2	0.0000	0.0000	0.0000	0.0000	0.0417	0.0093	0.0161	0.0003	0.0000	0.0000	0.0226	0.0247	2
3	0.0000	0.0000	0.0000	0.0000	0.0402	0.0082	0.0161	0.0002	0.0000	0.0000	0.0205	0.0236	3
4	0.0000	0.0000	0.0000	0.0007	0.0376	0.0075	0.0145	0.0001	0.0000	0.0000	0.0217	0.0224	4
5	0.0000	0.0000	0.0000	0.0249	0.0355	0.0130	0.0125	0.0000	0.0000	0.0000	0.0208	0.0217	5
6	0.0000	0.0000	0.0000	0.0538	0.0345	0.0133	0.0108	0.0000	0.0000	0.0000	0.0200	0.0210	6
7	0.0000	0.0000	0.0000	0.0667	0.0368	0.0175	0.0093	0.0000	0.0000	0.0000	0.0192	0.0198	7
8	0.0000	0.0000	0.0000	0.0770	0.0383	0.0213	0.0081	0.0000	0.0000	0.0000	0.0204	0.0183	8
9	0.0000	0.0000	0.0000	0.0852	0.0374	0.0259	0.0071	0.0000	0.0000	0.0000	0.0206	0.0177	9
10	0.0000	0.0000	0.0000	0.0924	0.0375	0.0284	0.0062	0.0000	0.0000	0.0000	0.0200	0.0162	10
11	0.0000	0.0000	0.0000	0.0946	0.0390	0.0289	0.0053	0.0000	0.0000	0.0000	0.0202	0.0157	11
12	0.0000	0.0000	0.0000	0.0958	0.0399	0.0287	0.0050	0.0000	0.0000	0.0000	0.0199	0.0156	12
13	0.0000	0.0000	0.0000	0.0938	0.0388	0.0338	0.0063	0.0000	0.0000	0.0000	0.0194	0.0150	13
14	0.0000	0.0000	0.0000	0.0911	0.0370	0.0346	0.0068	0.0000	0.0000	0.0000	0.0191	0.0141	14
15	0.0000	0.0000	0.0000	0.0851	0.0335	0.0340	0.0056	0.0000	0.0000	0.0000	0.0223	0.0144	15
16	0.0000	0.0000	0.0000	0.0786	0.0305	0.0330	0.0052	0.0000	0.0000	0.0000	0.0240	0.0182	16
17	0.0000	0.0000	0.0000	0.0727	0.0296	0.0330	0.0046	0.0000	0.0000	0.0000	0.0222	0.0204	17
18	0.0000	0.0000	0.0000	0.0681	0.0272	0.0317	0.0039	0.0000	0.0000	0.0000	0.0217	0.0203	18
19	0.0000	0.0000	0.0000	0.0639	0.0263	0.0285	0.0030	0.0000	0.0000	0.0006	0.0210	0.0184	19
20	0.0000	0.0000	0.0000	0.0602	0.0245	0.0250	0.0025	0.0000	0.0000	0.0012	0.0199	0.0179	20
21	0.0000	0.0000	0.0000	0.0566	0.0247	0.0243	0.0026	0.0000	0.0000	0.0074	0.0188	0.0171	21
22	0.0000	0.0000	0.0000	0.0519	0.0233	0.0262	0.0026	0.0000	0.0000	0.0145	0.0186	0.0169	22
23	0.0000	0.0000	0.0000	0.0489	0.0216	0.0243	0.0022	0.0000	0.0000	0.0173	0.0183	0.0160	23
24	0.0000	0.0000	0.0000	0.0456	0.0217	0.0222	0.0018	0.0000	0.0000	0.0199	0.0177	0.0149	24
25	0.0000	0.0000	0.0000	0.0441	0.0199	0.0205	0.0013	0.0000	0.0000	0.0208	0.0174	0.0141	25
26	0.0000	0.0000	0.0000	0.0436	0.0167	0.0206	0.0010	0.0000	0.0000	0.0214	0.0180	0.0134	26
27	0.0000	0.0000	0.0000	0.0453	0.0157	0.0227	0.0008	0.0000	0.0000	0.0230	0.0209	0.0133	27
28	0.0000	0.0000	0.0000	0.0497	0.0143	0.0219	0.0005	0.0000	0.0000	0.0232	0.0242	0.0132	28
29	0.0000		0.0000	0.0495	0.0133	0.0206	0.0004	0.0000	0.0000	0.0232	0.0259	0.0140	29
30	0.0000		0.0000	0.0465	0.0127	0.0183	0.0005	0.0000	0.0000	0.0222	0.0268	0.0135	30
31	0.0000		0.0000		0.0109		0.0006	0.0000		0.0220		0.0127	31
TOTAL	0.0000	0.0000	0.0000	1.6862	0.9045	0.6880	0.1800	0.0010	0.0000	0.2167	0.6268	0.5398	TOTAL
MEAN	0.0000	0.0000	0.0000	0.0562	0.0292	0.0229	0.0058	.0000	0.0000	0.0070	0.0209	0.0174	MEAN
MAX	0.0000	0.0000	0.0000	0.0958	0.0439	0.0346	0.0168	0.0004	0.0000	0.0232	0.0268	0.0253	MAX
MIN	0.0000	0.0000	0.0000	0.0000	0.0109	0.0075	0.0004	0.0000	0.0000	0.0000	0.0174	0.0127	MIN

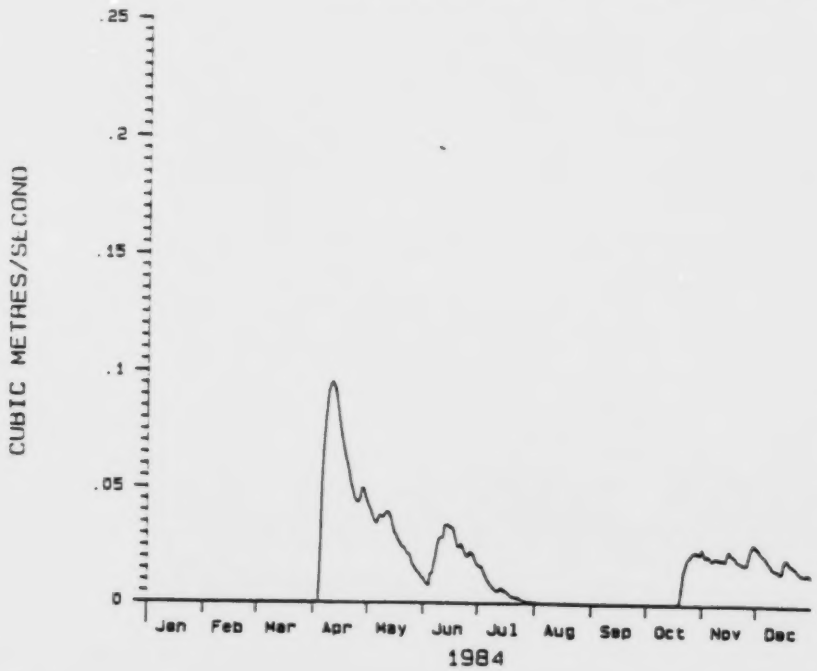
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	145688	78149	59443	12312	86	0	18723	54156	46639

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE.	415195	CUBIC METRES
MEAN DISCHARGE.	0.0133	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0958	CUBIC METRES/SEC ON APR 12
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON JAN 01
MAX INSTANTANEOUS FLOW.	0.0970	CUBIC METRES/SEC ON APR 12

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE Z39 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0118	0.0031	0.0024	0.0075	0.1778	0.0560	0.0917	0.0040	0.0209	0.0676	0.0244	0.0160	1
2	0.0112	0.0030	0.0023	0.0099	0.1452	0.0512	0.0848	0.0036	0.0213	0.0623	0.0228	0.0150	2
3	0.0104	0.0028	0.0022	0.0150	0.1316	0.0460	0.0781	0.0027	0.0248	0.0591	0.0209	0.0141	3
4	0.0101	0.0027	0.0021	0.0184	0.1393	0.0417	0.0710	0.0039	0.0265	0.0535	0.0194	0.0144	4
5	0.0096	0.0026	0.0018	0.0187	0.1393	0.0396	0.0642	0.0039	0.0275	0.0517	0.0180	0.0136	5
6	0.0094	0.0026	0.0020	0.0194	0.1413	0.0360	0.0572	0.0036	0.0260	0.0477	0.0180	0.0132	6
7	0.0104	0.0024	0.0026	0.0205	0.1512	0.0351	0.0517	0.0028	0.0236	0.0467	0.0184	0.0129	7
8	0.0101	0.0023	0.0026	0.0213	0.1413	0.0336	0.0449	0.0023	0.0216	0.0529	0.0177	0.0126	8
9	0.0094	0.0026	0.0022	0.0205	0.1326	0.0299	0.0369	0.0018	0.0187	0.0517	0.0157	0.0120	9
10	0.0086	0.0027	0.0022	0.0202	0.1223	0.0289	0.0332	0.0014	0.0163	0.0494	0.0150	0.0109	10
11	0.0084	0.0027	0.0021	0.0224	0.1335	0.0248	0.0277	0.0009	0.0157	0.0483	0.0141	0.0112	11
12	0.0082	0.0026	0.0020	0.0256	0.1537	0.0229	0.0295	0.0014	0.0135	0.0541	0.0141	0.0109	12
13	0.0084	0.0026	0.0020	0.0265	0.2333	0.0224	0.0272	0.0045	0.0126	0.0649	0.0129	0.0109	13
14	0.0082	0.0026	0.0021	0.0299	0.2307	0.0202	0.0209	0.0054	0.0109	0.0662	0.0123	0.0109	14
15	0.0077	0.0024	0.0020	0.0346	0.2245	0.0205	0.0180	0.0056	0.0104	0.0676	0.0123	0.0104	15
16	0.0077	0.0026	0.0018	0.0375	0.2606	0.0240	0.0154	0.0054	0.0101	0.0676	0.0118	0.0101	16
17	0.0075	0.0026	0.0020	0.0380	0.2481	0.0308	0.0144	0.0170	0.0104	0.0662	0.0115	0.0101	17
18	0.0073	0.0024	0.0018	0.0386	0.2196	0.0304	0.0147	0.0313	0.0101	0.0610	0.0126	0.0099	18
19	0.0068	0.0023	0.0016	0.0391	0.2063	0.0273	0.0194	0.0346	0.0812	0.0572	0.0165	0.0099	19
20	0.0064	0.0022	0.0017	0.0422	0.1701	0.0260	0.0173	0.0351	0.1553	0.0547	0.0163	0.0091	20
21	0.0062	0.0021	0.0017	0.0784	0.1553	0.0265	0.0147	0.0336	0.1616	0.0506	0.0160	0.0086	21
22	0.0062	0.0020	0.0014	0.2782	0.1345	0.0566	0.0126	0.0351	0.1522	0.0471	0.0160	0.0086	22
23	0.0044	0.0020	0.0014	0.3257	0.1187	0.0696	0.0126	0.0370	0.1413	0.0460	0.0160	0.0084	23
24	0.0039	0.0018	0.0014	0.3393	0.1056	0.0696	0.0126	0.0370	0.1307	0.0438	0.0157	0.0082	24
25	0.0037	0.0022	0.0016	0.3272	0.0953	0.0703	0.0107	0.0356	0.1205	0.0406	0.0154	0.0082	25
26	0.0037	0.0026	0.0021	0.2979	0.0848	0.0731	0.0101	0.0322	0.1073	0.0380	0.0160	0.0086	26
27	0.0039	0.0026	0.0024	0.2552	0.0745	0.0781	0.0082	0.0313	0.0965	0.0346	0.0160	0.0094	27
28	0.0037	0.0024	0.0056	0.2358	0.0656	0.0925	0.0073	0.0282	0.0866	0.0327	0.0157	0.0089	28
29	0.0037		0.0066	0.2087	0.0629	0.0990	0.0060	0.0252	0.0810	0.0299	0.0157	0.0089	29
30	0.0036		0.0070	0.2016	0.0624	0.0965	0.0054	0.0232	0.0713	0.0273	0.0163	0.0086	30
31	0.0032		0.0073		0.0604		0.0047	0.0213		0.0252		0.0084	31
TOTAL	0.2238	0.0695	0.0812	3.0538	4.5163	1.3774	0.9191	0.5109	1.7082	1.5682	0.4833	0.3341	TOTAL
MEAN	0.0072	0.0025	0.0026	0.1018	0.1457	0.0459	0.0296	0.0165	0.0569	0.0506	0.0161	0.0108	MEAN
MAX	0.0118	0.0031	0.0073	0.3393	0.2606	0.0990	0.0917	0.0370	0.1616	0.0682	0.0244	0.0160	MAX
MIN	0.0032	0.0018	0.0014	0.0075	0.0604	0.0202	0.0047	0.0009	0.0101	0.0252	0.0115	0.0082	MIN

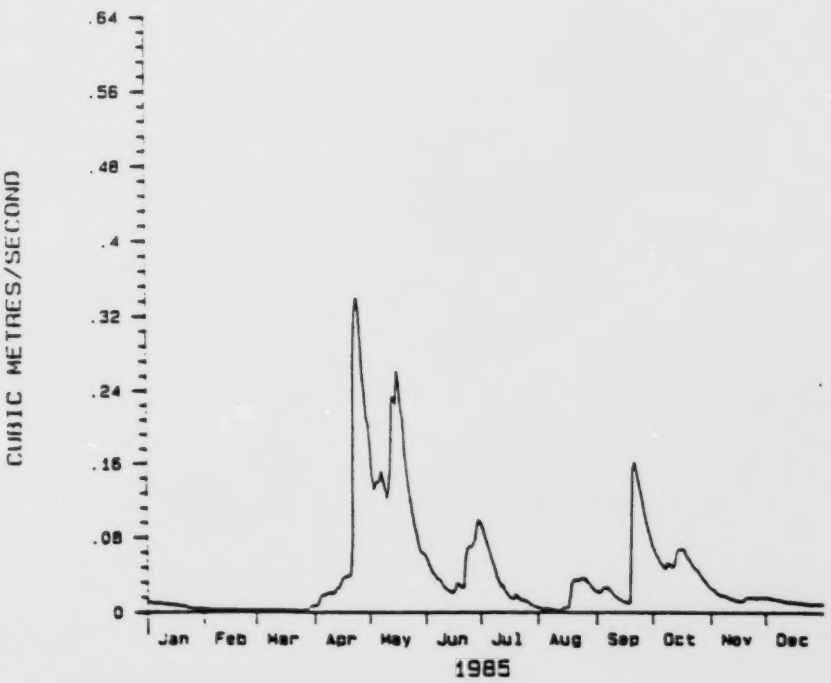
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
19336	6005	7016	263848	390208	119007	79410	44142	147588	135492	41757	28866

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE.	1282677	CUBIC METRES
MEAN DISCHARGE.	0.0405	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.3393	CUBIC METRES/SEC ON APR 24
MIN DAILY DISCHARGE.	0.0009	CUBIC METRES/SEC ON AUG 11
MAX INSTANTANEOUS FLOW.	0.3454	CUBIC METRES/SEC ON APR 25

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 239 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0080	0.0054	0.0041	0.0575	0.2266	0.0156	0.0006	0.0000	0.0000 E	0.0003	0.0002	0.0000	1
2	0.0075	0.0055	0.0041	0.0795	0.2186	0.0127	0.0006	0.0000	0.0000 E	0.0009	0.0000	0.0000	2
3	0.0072	0.0054	0.0041	0.0901	0.1997	0.0109	0.0005	0.0000	0.0000 E	0.0011	0.0000	0.0000	3
4	0.0072	0.0052	0.0041	0.1005	0.1800	0.0099	0.0005 E	0.0000	0.0000 E	0.0010	0.0000	0.0000	4
5	0.0072	0.0052	0.0047	0.1118	0.1921	0.0080	0.0020 E	0.0000	0.0000 E	0.0011	0.0000	0.0000	5
6	0.0070	0.0053	0.0045	0.1155	0.1928	0.0069	0.0031	0.0000	0.0000 E	0.0007	0.0000	0.0000	6
7	0.0067	0.0051	0.0044	0.1145	0.1810	0.0064	0.0024	0.0000	0.0000 E	0.0008	0.0001	0.0000	7
8	0.0064	0.0051	0.0046	0.1131	0.1634	0.0051	0.0020	0.0000	0.0000 E	0.0007	0.0000	0.0000	8
9	0.0062	0.0050	0.0051	0.1073	0.1481	0.0044	0.0017	0.0000	0.0000	0.0006	0.0000	0.0000	9
10	0.0062	0.0049	0.0050	0.1000	0.1362	0.0041	0.0014	0.0000	0.0000	0.0007	0.0000	0.0000	10
11	0.0060	0.0049	0.0048	0.0936	0.1259	0.0030	0.0018	0.0000	0.0000	0.0007	0.0000	0.0000	11
12	0.0059	0.0048	0.0045	0.0871	0.1154	0.0025	0.0019	0.0000	0.0000	0.0002	0.0000	0.0000	12
13	0.0071	0.0046	0.0043	0.0809	0.1053	0.0020	0.0017	0.0000	0.0000	0.0001	0.0000	0.0000	13
14	0.0067	0.0044	0.0041	0.0756	0.0949	0.0017	0.0015	0.0000	0.0000	0.0001	0.0000	0.0000	14
15	0.0064	0.0041	0.0041	0.0705	0.0868	0.0016	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	15
16	0.0063	0.0040	0.0039	0.0665	0.0786	0.0018	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	16
17	0.0062	0.0041	0.0039	0.0618	0.0706	0.0013	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	17
18	0.0061	0.0042	0.0037	0.0586	0.0637	0.0011	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	18
19	0.0059	0.0045	0.0035	0.0705	0.0579	0.0008	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	19
20	0.0056	0.0046	0.0034	0.0779	0.0535	0.0013	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	20
21	0.0052	0.0045	0.0034	0.0801	0.0485	0.0019	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	21
22	0.0049	0.0043	0.0032	0.0790	0.0439	0.0018	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	22
23	0.0047	0.0042	0.0031	0.0758	0.0394	0.0013	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	23
24	0.0055	0.0042	0.0032	0.0715	0.0363	0.0007	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	24
25	0.0064	0.0040	0.0032	0.0681	0.0339	0.0010	0.0003	0.0000	0.0001	0.0000	0.0000	0.0000	25
26	0.0065	0.0042	0.0033	0.0787	0.0308	0.0018	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	26
27	0.0064	0.0043	0.0034	0.0916	0.0283	0.0018	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	27
28	0.0063	0.0041	0.0033	0.1570	0.0256	0.0014	0.0001	0.0000	0.0002	0.0000	0.0000	0.0000	28
29	0.0061		0.0040	0.2087	0.0229	0.0010	0.0001	0.0000	0.0003	0.0000	0.0000	0.0000	29
30	0.0058		0.0103	0.2096	0.0207	0.0007	0.0001	0.0000	0.0004	0.0000	0.0000	0.0000	30
31	0.0054		0.0280		0.0177		0.0001	0.0000		0.0001		0.0000	31
TOTAL	0.1958	0.1301	0.1533	2.8529	3.0391	0.1145	0.0327	0.0000	0.0013	0.0091	0.0003	0.0000	TOTAL
MEAN	0.0063	0.0046	0.0049	0.0951	0.0980	0.0038	0.0011	0.0000	0.0000	0.0003	0.0000	0.0000	MEAN
MAX	0.0080	0.0055	0.0280	0.2096	0.2266	0.0156	0.0031	0.0000	0.0004	0.0011	0.0002	0.0000	MAX
MIN	0.0047	0.0040	0.0031	0.0575	0.0177	0.0007	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	MIN

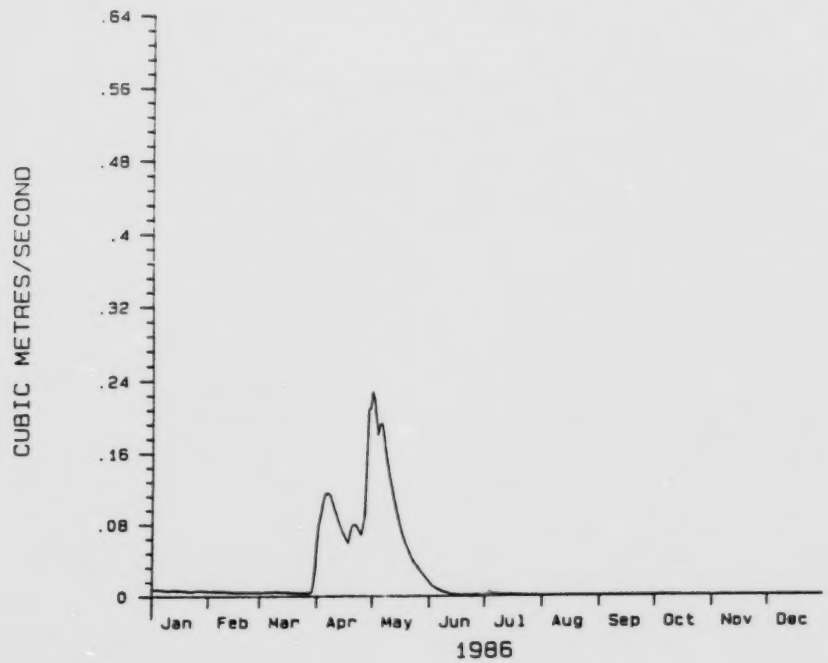
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
16917	11241	13245	246491	262578	9893	2825	0	112	786	26	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	564114	CUBIC METRES
MEAN DISCHARGE,	0.0179	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.2266	CUBIC METRES/SEC ON MAY 01
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 01
MAX INSTANTANEOUS FLOW,	0.2295	CUBIC METRES/SEC ON MAY 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 239 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000	0.0000	0.0000	0.0831	0.0133	0.0277	0.0014	0.0004	0.0000	0.0000	0.0000	0.0000	1
2	0.0000	0.0000	0.0000	0.0749	0.0118	0.0303	0.0014	0.0003	0.0000	0.0000	0.0000	0.0000	2
3	0.0000	0.0000	0.0000	0.0680	0.0105	0.0270	0.0006	0.0003	0.0000	0.0000	0.0000	0.0000	3
4	0.0000	0.0000	0.0000	0.0622	0.0095	0.0261	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	4
5	0.0000	0.0000	0.0000	0.0596	0.0090	0.0236	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	5
6	0.0000	0.0000	0.0000	0.0589	0.0080	0.0224	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	6
7	0.0000	0.0000	0.0000	0.0601	0.0075	0.0214	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	7
8	0.0000	0.0000	0.0000	0.0613	0.0064	0.0154	0.0024	0.0000	0.0000	0.0000	0.0000	0.0000	8
9	0.0000	0.0000	0.0000	0.0604	0.0055	0.0142	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	9
10	0.0000	0.0000	0.0000	0.0655	0.0042	0.0130	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	10
11	0.0000	0.0000	0.0000	0.0651	0.0038	0.0303	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	11
12	0.0000	0.0000	0.0000	0.0623	0.0025	0.0342	0.0014	0.0001	0.0000	0.0000	0.0000	0.0000	12
13	0.0000	0.0000	0.0000	0.0597	0.0028	0.0324	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	13
14	0.0000	0.0000	0.0000	0.0574	0.0020	0.0279	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	14
15	0.0000	0.0000	0.0000	0.0543	0.0020	0.0240	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	15
16	0.0000	0.0000	0.0000	0.0509	0.0017	0.0211	0.0007	0.0001	0.0000	0.0000	0.0000	0.0000	16
17	0.0000	0.0000	0.0000	0.0490	0.0019	0.0190	0.0010	0.0001	0.0000	0.0000	0.0000	0.0000	17
18	0.0000	0.0000	0.0000	0.0464	0.0013	0.0163	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	18
19	0.0000	0.0000	0.0000	0.0441	0.0010	0.0141	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	19
20	0.0000	0.0000	0.0000	0.0420	0.0011	0.0126	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	20
21	0.0000	0.0000	0.0000	0.0396	0.0103	0.0114	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	21
22	0.0000	0.0000	0.0000	0.0365	0.0159	0.0108	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	22
23	0.0000	0.0000	0.0263	0.0340	0.0172	0.0093	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	23
24	0.0000	0.0000	0.0954	0.0318	0.0180	0.0075	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	24
25	0.0000	0.0000	0.1129	0.0297	0.0178	0.0061	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	25
26	0.0000	0.0000	0.1195	0.0273	0.0255	0.0058	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	26
27	0.0000	0.0000	0.1220	0.0238	0.0295	0.0046	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	27
28	0.0000	0.0000	0.1197	0.0200	0.0308	0.0034	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	28
29	0.0000		0.1136	0.0155	0.0308	0.0023	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	29
30	0.0000		0.1043	0.0137	0.0293	0.0016	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	30
31	0.0000		0.0935		0.0265		0.0003	0.0000		0.0000		0.0000	31
TOTAL	0.0000	0.0000	0.9072	1.4571	0.3574	0.5168	0.0270	0.0013	0.0000	0.0000	0.0000	0.0000	TOTAL
MEAN	0.0000	0.0000	0.0293	0.0486	0.0115	0.0172	0.0009	.0000	0.0000	0.0000	0.0000	0.0000	MEAN
MAX	0.0000	0.0000	0.1220	0.0831	0.0308	0.0342	0.0024	0.0004	0.0000	0.0000	0.0000	0.0000	MAX
MIN	0.0000	0.0000	0.0000	0.0137	0.0010	0.0016	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	MIN

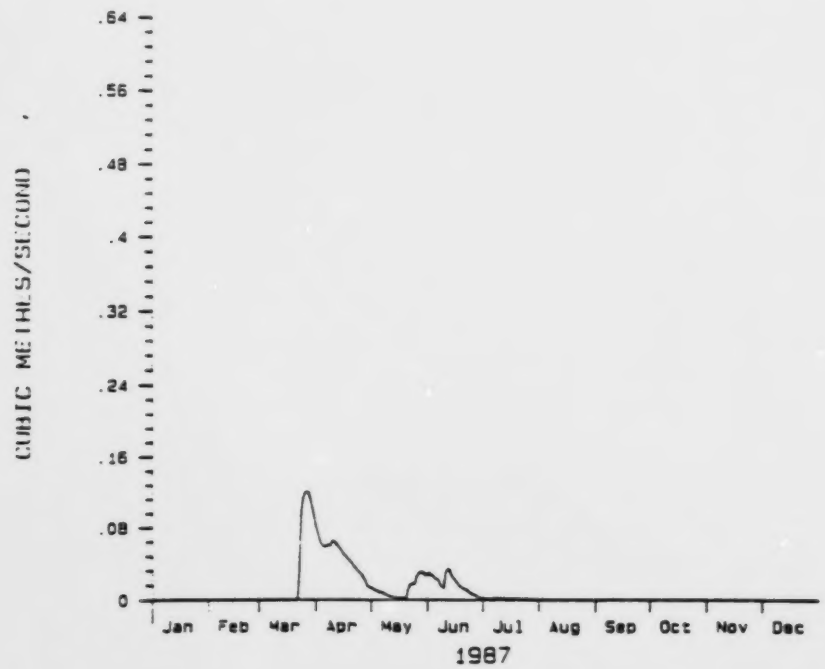
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	78382	125893	30879	44652	2333	112	0	0	0	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	282252	CUBIC METRES	
MEAN DISCHARGE,	0.0090	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.1220	CUBIC METRES/SEC	ON MAR 27
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JAN 01
MAX INSTANTANEOUS FLOW,	0.1225	CUBIC METRES/SEC	ON MAR 27

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 239
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.533	29.517	29.506	29.515 E	29.714	29.618	29.519	29.558	29.465	29.608	29.995	29.548	1
2	29.533	29.515	29.506	29.522 A	29.702	29.617	29.528	29.553	29.495	29.623	29.988	29.549	2
3	29.538	29.515	29.505	29.530	29.694	29.614	29.539	29.558	29.486	29.635	29.584	29.550	3
4	29.537	29.512	29.502	29.533	29.690	29.609	29.584	29.555	29.483	29.640	29.580	29.550	4
5	29.534	29.510	29.502	29.531	29.690	29.596	29.699	29.551	29.480	29.642	29.573	29.549	5
6	29.535	29.510	29.500	29.530	29.684	29.594	29.714	29.546	29.477	29.645	29.568	29.547	6
7	29.534	29.509	29.501	29.529	29.677	29.602	29.709	29.542	29.475	29.700	29.564	29.545	7
8	29.535	29.508	29.501	29.528	29.666	29.598	29.698	29.539	29.474	29.722	29.559	29.545	8
9	29.532	29.507	29.501	29.527	29.657	29.602	29.687	29.530	29.475	29.723	29.556	29.538	9
10	29.531	29.506	29.499	29.527	29.654	29.617	29.676	29.524	29.475	29.736	29.554	29.534	10
11	29.530	29.506	29.500	29.526	29.653	29.619	29.666	29.519	29.476	29.756	29.555	29.533	11
12	29.532	29.505	29.504	29.524	29.649	29.614	29.656	29.516	29.476	29.756	25.558 A	29.532	12
13	29.531	29.507	29.513	29.524	29.640	29.609	29.650	29.516	29.478	29.747	29.559 E	29.528	13
14	29.528	29.507	29.511	29.529	29.636	29.610	29.640	29.515	29.476	29.736	29.560 E	29.526	14
15	29.529	29.504	29.508	29.516	29.636	29.605	29.634	29.513	29.471	29.723	29.561 E	29.526	15
16	29.525	29.501	29.509	29.779	29.674	29.599	29.627	29.510	29.466	29.710	29.562 E	29.524	16
17	29.524	29.510	29.511	29.851	29.679	29.596	29.642	29.505	29.465	29.698	29.563 E	29.523	17
18	29.520	29.511	29.512	29.845	29.659	29.590	29.636	29.504	29.461	29.689	29.563 E	29.523	18
19	29.523	29.511	29.511	29.834	29.679	29.589	29.629	29.504	29.461	29.680	29.564 E	29.524	19
20	29.522	29.508	29.510	29.823	29.682	29.579	29.621	29.498	29.458	29.665	29.565 E	29.523	20
21	29.520	29.508	29.508	29.811	29.677	29.575	29.612	29.498	29.454	29.657	29.566 E	29.523	21
22	29.519	29.507	29.506	29.805	29.670	29.571	29.603	29.499	29.453	29.649	29.567 E	29.521	22
23	29.527	29.506	29.508	29.807	29.661	29.565	29.595	29.497	29.478	29.641	29.568 A	29.523	23
24	29.526	29.505	29.508	29.804	29.650	29.563	29.609	29.493	29.505	29.634	29.567	29.523	24
25	29.525	29.504	29.508	29.794	29.643	29.556	29.605	29.491	29.509	29.627	29.565	29.522	25
26	29.522	29.504	29.505 E	29.780	29.636	29.550	29.597	29.485	29.510	29.622	29.560	29.521	26
27	29.521	29.502	29.504 E	29.765	29.632	29.541	29.589	29.478	29.514	29.616	29.557	29.521	27
28	29.520	29.504	29.502 E	29.748	29.622	29.535	29.583	29.470	29.566	29.612	29.555	29.517	28
29	29.521		29.500 E	29.736	29.611	29.528	29.578	29.472	29.600	29.608	29.553	29.516 A	29
30	29.519		29.505 E	29.724	29.607	29.524	29.574	29.469	29.607	29.605	29.950	29.515 E	30
31	29.516		29.515 E		29.613		29.567	29.470		29.599		29.513 A	31
MEAN	29.527	29.508	29.506	29.664	29.657	29.586	29.628	29.512	29.489	29.668	29.565	29.530	MEAN
MAX	29.538	29.517	29.515	29.851	29.714	29.619	29.714	29.558	29.607	29.756	29.995	29.550	MAX
MIN	29.516	29.501	29.499	29.515	29.607	29.524	29.519	29.469	29.453	29.599	29.550	29.513	MIN

NOTES

--- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.851 METRES ON APR 17
MINIMUM DAILY WATER LEVEL, 29.453 METRES ON SEP 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.854 METRES AT 1045 ON APR 17

LAKE 239
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.512	29.513 E	29.517	29.529	29.661	29.576	29.563	29.488	29.412	29.367	29.356	29.400	1
2	29.512	29.513 E	29.517	29.541	29.656	29.574	29.560	29.485	29.403	29.369	29.360	29.402	2
3	29.512	29.510 E	29.519	29.546	29.654	29.572	29.569	29.480	29.398	29.368	29.355	29.403	3
4	29.511	29.509 E	29.519	29.549	29.650	29.575	29.585	29.477	29.388	29.369	29.354	29.405	4
5	29.514	29.508 E	29.522	29.555	29.641	29.571	29.588	29.485	29.390	29.374	29.351	29.403	5
6	29.511	29.507 E	29.527	29.563	29.635	29.565	29.586	29.479	29.402	29.374	29.349	29.404	6
7	29.511	29.506 E	29.531	29.567	29.629	29.559	29.583	29.474	29.397	29.371	29.349	29.406	7
8	29.511	29.505 A	29.535	29.578	29.622	29.553	29.582	29.467	29.395	29.370	29.350	29.407	8
9	29.524	29.507	29.537	29.600	29.619	29.548	29.578	29.458	29.398	29.373	29.348	29.408	9
10	29.533	29.508	29.534	29.626	29.613	29.545	29.569	29.454	29.394	29.373	29.347	29.407	10
11	29.529 A	29.511	29.532	29.654	29.614	29.542	29.564	29.450	29.385	29.372	29.343	29.407	11
12	29.528 E	29.512	29.530	29.684	29.618	29.543	29.553	29.446	29.379	29.374	29.341	29.412	12
13	29.527 E	29.511	29.529	29.702	29.631	29.540	29.549	29.442	29.379	29.372	29.344	29.411	13
14	29.536 E	29.509	29.531	29.704	29.631	29.586	29.545	29.438	29.376	29.370	29.343	29.413	14
15	29.535 E	29.509	29.529	29.697	29.628	29.609	29.540	29.433	29.373	29.366	29.346	29.422	15
16	29.534 E	29.507	29.527	29.688	29.622	29.620	29.540	29.427	29.370	29.369	29.340	29.425	16
17	29.531 E	29.507	29.526	29.679	29.619	29.620	29.540	29.425	29.373	29.367	29.339	29.425	17
18	29.530 E	29.509	29.523	29.673	29.620	29.615	29.536	29.430	29.378	29.366	29.338	29.421	18
19	29.528 E	29.514	29.523	29.670	29.615	29.610	29.535	29.428	29.371	29.365	29.340	29.425	19
20	29.527 E	29.515	29.521	29.673	29.609	29.605	29.530	29.421	29.368	29.361	29.338	29.425	20
21	29.526 E	29.515	29.522	29.675	29.607	29.598	29.524	29.434	29.367	29.361	29.372	29.424	21
22	29.525 E	29.514	29.521	29.682	29.613	29.604	29.518	29.433	29.362	29.359	29.377	29.424	22
23	29.523 E	29.513	29.519	29.681	29.612	29.603	29.507	29.428	29.359	29.359	29.380	29.423	23
24	29.521 E	29.512	29.518	29.680	29.610	29.599	29.502	29.426	29.356	29.361	29.391	29.422	24
25	29.517 E	29.512	29.517	29.678	29.604	29.592	29.498	29.423	29.355	29.362	29.396	29.422	25
26	29.518 E	29.511	29.516	29.677	29.600	29.588	29.495	29.422	29.354	29.362	29.397	29.412	26
27	29.517 E	29.515	29.515	29.674	29.594	29.577	29.489	29.419	29.351	29.362	29.396	29.407	27
28	29.516 E	29.519	29.513	29.672	29.594	29.569	29.489	29.418	29.353	29.359	29.398	29.412	28
29	29.515 E		29.514	29.673	29.592	29.563	29.486	29.417	29.355	29.357	29.400	29.412	29
30	29.515 E		29.513	29.668	29.588	29.567	29.486	29.414	29.356	29.358	29.401	29.412	30
31	29.515 E		29.515		29.581		29.494	29.413		29.357		29.408	31
MEAN	29.521	29.511	29.523	29.641	29.619	29.580	29.538	29.443	29.377	29.366	29.362	29.413	MEAN
MAX	29.536	29.519	29.537	29.704	29.661	29.620	29.588	29.488	29.412	29.374	29.401	29.425	MAX
MIN	29.511	29.505	29.513	29.529	29.581	29.540	29.486	29.413	29.351	29.357	29.338	29.400	MIN

NOTES

--- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.704 METRES ON APR 14
MINIMUM DAILY WATER LEVEL, 29.338 METRES ON NOV 18
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.707 METRES AT 2317 ON APR 14

LAKE ZTS
MEAN DAILY WATER LEVEL IN METRES FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.409	29.442	29.476	29.499	29.607	29.526	29.554	29.463	29.345	29.304	29.573	29.576	1
2	29.410	29.444	29.476	29.516	29.605	29.519	29.551	29.460	29.339	29.299	29.569	29.575	2
3	29.420	29.443	29.472	29.533	29.599	29.515	29.551	29.458	29.337	29.300	29.567	29.573	3
4	29.427	29.449	29.470	29.559	29.595	29.511	29.543	29.454	29.335	29.296	29.562	29.568	4
5	29.427	29.449	29.473	29.593	29.590	29.529	29.539	29.449	29.330	29.294	29.562	29.567	5
6	29.430	29.447	29.473	29.628	29.587	29.534	29.532	29.445	29.327	29.291	29.559	29.565	6
7	29.432	29.449	29.473	29.651	29.595	29.549	29.524	29.442	29.325	29.291	29.557	29.561	7
8	29.429	29.447	29.475	29.664	29.599	29.563	29.516	29.439	29.334	29.292	29.561	29.557	8
9	29.432	29.449	29.473	29.677	29.597	29.580	29.514	29.434	29.337	29.292	29.561	29.555	9
10	29.430	29.451	29.474	29.689	29.593	29.585	29.510	29.429	29.338	29.292	29.561	29.552	10
11	29.428	29.451	29.476	29.691	29.596	29.582	29.505	29.422	29.342	29.293	29.559	29.550	11
12	29.428	29.450	29.475	29.690	29.600	29.585	29.504	29.416	29.341	29.293	29.559	29.547	12
13	29.429	29.452	29.473	29.686	29.598	29.586	29.509	29.414	29.340	29.294	29.554	29.547	13
14	29.429	29.455	29.475	29.678	29.591	29.587	29.514	29.418	29.338	29.321	29.558	29.542	14
15	29.429	29.456	29.473	29.672	29.586	29.594	29.508	29.415	29.333	29.334	29.562	29.537	15
16	29.432	29.468	29.479	29.662	29.582	29.597	29.506	29.407	29.331	29.338	29.565	29.537	16
17	29.432	29.470	29.478	29.656	29.579	29.594	29.501	29.403	29.328	29.343	29.564	29.542	17
18	29.432	29.470	29.480	29.650	29.576	29.591	29.497	29.402	29.323	29.418	29.561	29.564	18
19	29.432	29.470	29.476	29.641	29.572	29.584	29.493	29.398	29.324	29.462	29.562	29.557	19
20	29.432	29.469	29.474	29.636	29.570	29.578	29.490	29.400	29.320	29.504	29.560	29.553	20
21	29.432	29.471	29.475	29.628	29.573	29.576	29.486	29.404	29.320	29.530	29.558	29.551	21
22	29.433	29.471	29.475	29.623	29.570	29.582	29.486	29.396	29.319	29.549	29.556	29.550	22
23	29.434	29.472	29.475	29.615	29.565	29.576	29.481	29.392	29.319	29.557	29.556	29.545	23
24	29.434	29.473	29.476	29.610	29.560	29.570	29.477	29.387	29.318	29.567	29.554	29.547	24
25	29.437	29.472	29.480	29.607	29.557	29.563	29.475	29.383	29.315	29.569	29.552	29.540	25
26	29.436	29.472	29.478	29.604	29.549	29.564	29.470	29.383	29.312	29.568	29.557	29.534	26
27	29.438	29.473	29.476	29.610	29.542	29.571	29.467	29.381	29.311	29.569	29.564	29.535	27
28	29.439	29.472	29.480	29.618	29.538	29.570	29.461	29.376	29.309	29.573	29.574	29.533	28
29	29.441	29.474	29.482	29.619	29.536	29.565	29.460	29.365	29.308	29.571	29.576	29.539	29
30	29.440		29.488	29.613	29.529	29.562	29.459	29.358	29.306	29.567	29.577	29.536	30
31	29.442		29.491		29.527		29.465	29.348		29.566		29.533	31
MEAN	29.431	29.460	29.477	29.627	29.576	29.567	29.502	29.411	29.327	29.412	29.562	29.552	MEAN
MAX	29.442	29.474	29.491	29.691	29.607	29.597	29.554	29.463	29.345	29.573	29.577	29.576	MAX
MIN	29.409	29.442	29.470	29.499	29.527	29.511	29.459	29.348	29.306	29.291	29.552	29.533	MIN

NOTES

—— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.691 METRES ON APR 11
MINIMUM DAILY WATER LEVEL, 29.291 METRES ON JAN 1
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.691 METRES AT 1249 ON APR 11

LAKE ZTS
MEAN DAILY WATER LEVEL IN METRES FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.530	29.509	29.490	29.514	29.784	29.633	29.688	29.492	29.559	29.651	29.576	29.545 E	1
2	—— N	29.507	29.489	29.524	29.764	29.624	29.678	29.487	29.559	29.643	29.573	29.544	2
3	—— N	29.506	29.489	29.544	29.747	29.616	29.667	29.483	29.569	29.640	29.569	29.540	3
4	—— N	29.506	29.488	29.550	29.751	29.607	29.654	29.490	29.572	29.633	29.564	29.542	4
5	—— N	29.505	29.488	29.552	29.751	29.600	29.646	29.491	29.571	29.628	29.563	29.541	5
6	—— N	29.503	29.488	29.555	29.754	29.595	29.634	29.489	29.580	29.623	29.563	29.537	6
7	—— N	29.502	29.490	29.554	29.763	29.591	29.622	29.484	29.563	29.618	29.561	29.534	7
8	—— N	29.501	29.489	29.560	29.756	29.587	29.613	29.482	29.556	29.635	29.560	29.533	8
9	—— N	29.502	29.488	29.560	29.745	29.581	29.600	29.472	29.549	29.634	29.557	29.531	9
10	—— N	29.504	29.488	29.559	29.732	29.571	29.585	29.463	29.542	29.633	29.552	29.531	10
11	—— N	29.504	29.486	29.563	29.743	29.566	29.576	29.462	29.549	29.630	29.547	29.531	11
12	—— N	29.504	29.486	29.571	29.768	29.563	29.568	29.469	29.533	29.637	29.546	29.530	12
13	—— N	29.502	29.486	29.578	29.840	29.559	29.564	29.496	29.528	29.653	29.546	29.529	13
14	—— N	29.502	29.485	29.585	29.858	29.556	29.557	29.501	29.522	29.655	29.542	29.526	14
15	—— N	29.501	29.482	29.594	29.853	29.557	29.548	29.501	29.520	29.655	29.539	29.524	15
16	—— N	29.501	29.481	29.601	29.861	29.568	29.543	29.501	29.521	29.656	29.536	29.524	16
17	—— N	29.501	29.478	29.605	29.851	29.579	29.537	29.545	29.521	29.654	29.539	29.522	17
18	—— N	29.500	29.477	29.607	29.827	29.580	29.545	29.580	29.520	29.646	29.551	29.521	18
19	—— N	29.499	29.477	29.610	29.803	29.575	29.555	29.588	29.653	29.643	29.551	29.521	19
20	—— N	29.496	29.477	29.617	29.777	29.569	29.545	29.589	29.765	29.635	29.548	29.520	20
21	—— N	29.494	29.475	29.673	29.757	29.574	29.536	29.586	29.770	29.632	29.548	29.519	21
22	—— N	29.496	29.475	29.888	29.737	29.623	29.530	29.587	29.761	29.629	29.548	29.518	22
23	29.519	29.492	29.473	29.924	29.719	29.649	29.531	29.593	29.746	29.623	29.550	29.518	23
24	29.518	29.491	29.473	29.931	29.705	29.651	29.530	29.593	29.736	29.617	29.549	29.517	24
25	29.516	29.494	29.486	29.925	29.687	29.648	29.523	29.590	29.722	29.611	29.547	29.516	25
26	29.515	29.499	29.483	29.903	29.675	29.657	29.518	29.585	29.707	29.604	29.552	29.521	26
27	29.516	29.499	29.494	29.876	29.658	29.664	29.512	29.582	29.694	29.599	29.549	29.520	27
28	29.515	29.492	29.504	29.850	29.646	29.668	29.509	29.574	29.685	29.594	29.548	29.519	28
29	29.514		29.508	29.825	29.642	29.696	29.502	29.569	29.673	29.589	29.547 E	29.518	29
30	29.511		29.509	29.810	29.647	29.694	29.499	29.563	29.662	29.584	29.546 E	29.518	30
31	29.509		29.512		29.638	29.494	29.494	29.559		29.580		29.517	31
MEAN	——	29.500	29.487	29.667	29.748	29.604	29.562	29.531	29.614	29.628	29.552	29.527	MEAN
MAX	——	29.509	29.512	29.931	29.861	29.696	29.688	29.593	29.770	29.656	29.576	29.545	MAX
MIN	——	29.491	29.473	29.514	29.638	29.494	29.494	29.462	29.520	29.580	29.536	29.516	MIN

NOTES

—— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
M MISSING RECORD
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.931 METRES ON APR 24
MINIMUM DAILY WATER LEVEL, 29.462 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.958 METRES AT 0100 ON APR 24

LAKE 239
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.513	29.504	29.494	29.632	29.852	29.538	29.467	29.433	29.386	29.448	29.446	29.521	1
2	29.514	29.503	29.494	29.666	29.805	29.550	29.462	29.432	29.398	29.458	29.445	29.522	2
3	29.513	29.503	29.493	29.687	29.807	29.523	29.457	29.435	29.428	29.462	29.444	29.526	3
4	29.514	29.502	29.492	29.695	29.787	29.517	29.460	29.436	29.440	29.460	29.443	29.528	4
5	29.513	29.501	29.494	29.709	29.800	29.510	29.482	29.459	29.459	29.456	29.448	29.528	5
6	29.512	29.501	29.494	29.714	29.799	29.505	29.487	29.435	29.453	29.455	29.448	29.529	6
7	29.513	29.503	29.492	29.717	29.788	29.504	29.479	29.473	29.431	29.461	29.454	29.530	7
8	29.511	29.503	29.494	29.716	29.770	29.499	29.476	29.460	29.428	29.462	29.479	29.531	8
9	29.509	29.503	29.496	29.711	29.754	29.492	29.477	29.438	29.425	29.459	29.486	29.534	9
10	29.507	29.503	29.495	29.703	29.740	29.490	29.469	29.434	29.422	29.460	29.488	29.535	10
11	29.506	29.502	29.494	29.694	29.726	29.485	29.474	29.429	29.419	29.464	29.488	29.536	11
12	29.506	29.501	29.493	29.685	29.714	29.480	29.473	29.424	29.422	29.462	29.490	29.536	12
13	29.505	29.501	29.493	29.675	29.701	29.474	29.470	29.420	29.419	29.459	29.491	29.537	13
14	29.505	29.501	29.491	29.667	29.688	29.469	29.470	29.420	29.416	29.463	29.491	29.539	14
15	29.504	29.500	29.490	29.658	29.678	29.467	29.467	29.420	29.414	29.461	29.491	29.538	15
16	29.503	29.499	29.490	29.650	29.665	29.468	29.466	29.439	29.410	29.460	29.494	29.540	16
17	29.502	29.499	29.490	29.647	29.657	29.462	29.466	29.434	29.417	29.460	29.499	29.540	17
18	29.501	29.499	29.489	29.638	29.646	29.460	29.465	29.429	29.419	29.459	29.497	29.541	18
19	29.500	29.501	29.488	29.652	29.632	29.460	29.464	29.432	29.419	29.459	29.500	29.542	19
20	29.500	29.501	29.487	29.669	29.624	29.466	29.464	29.434	29.418	29.459	29.504	29.542	20
21	29.499	29.500	29.487	29.670	29.616	29.476	29.460	29.427	29.420	29.458	29.505	29.544	21
22	29.499	29.498	29.486	29.666	29.609	29.477	29.455	29.422	29.428	29.460	29.506	29.544	22
23	29.498	29.497	29.486	29.660	29.596	29.468	29.454	29.419	29.430	29.456	29.509	29.545	23
24	29.504	29.497	29.485	29.653	29.589	29.467	29.453	29.414	29.430	29.455	29.513	29.547	24
25	29.509	29.496	29.485	29.650	29.583	29.466	29.449	29.414	29.434	29.455	29.516	29.546	25
26	29.507	29.497	29.486	29.669	29.577	29.477	29.446	29.407	29.438	29.455	29.518	29.547	26
27	29.508	29.495	29.488	29.688	29.571	29.477	29.445	29.400	29.444	29.454	29.519	29.547	27
28	29.509	29.494	29.487	29.765	29.566	29.471	29.444	29.395	29.446	29.455	29.519	29.547	28
29	29.507		29.491	29.816	29.558	29.466	29.443	29.392	29.447	29.452	29.520	29.547	29
30	29.506		29.518	29.818	29.551	29.462	29.440	29.390	29.449	29.449	29.520	29.547	30
31	29.504		29.571		29.545		29.434	29.388		29.453		29.549	31
MEAN	29.506	29.500	29.494	29.688	29.677	29.485	29.462	29.425	29.426	29.458	29.489	29.538	MEAN
MAX	29.514	29.504	29.571	29.818	29.852	29.538	29.487	29.440	29.449	29.464	29.520	29.549	MAX
MIN	29.499	29.494	29.485	29.632	29.545	29.460	29.434	29.388	29.386	29.448	29.443	29.521	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATIVE TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.852 METRES ON MAY 01
MINIMUM DAILY WATER LEVEL, 29.386 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.853 METRES AT 12:00 ON MAY 1

LAKE 239
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.551	29.568	29.587	29.676	29.553	29.585	29.499	29.458	29.410	29.368	29.311	29.327	1
2	29.551	29.568	29.588	29.665	29.550	29.589	29.501	29.457	29.403	29.358	29.313	29.327	2
3	29.552	29.569	29.588	29.655	29.545	29.581	29.497	29.454	29.399 E	29.348	29.315	29.326	3
4	29.553	29.570	29.589	29.647	29.541	29.577	29.494	29.447	29.399 E	29.344	29.319	29.325	4
5	29.553	29.570	29.591	29.643	29.538	29.573	29.490	29.442	29.399 E	29.354	29.318	29.325	5
6	29.553	29.569	29.593	29.642	29.534	29.571	29.487	29.445	29.400 E	29.352	29.316	29.326	6
7	29.555	29.569	29.594	29.646	29.530	29.570	29.484	29.444	29.400 E	29.341	29.316	29.326	7
8	29.555	29.569	29.597	29.648	29.526	29.564	29.476	29.442	29.402 A	29.338	29.313	29.327	8
9	29.555	29.569	29.598	29.650	29.522	29.557	29.471	29.440	29.396	29.350	29.311	29.329	9
10	29.556	29.568	29.600	29.649	29.518	29.555	29.468	29.434	29.394	29.341	29.311	29.326	10
11	29.556	29.569	29.603	29.647	29.515	29.594	29.468	29.443	29.394	29.339	29.309	29.330	11
12	29.556	29.568	29.603	29.643	29.511	29.602	29.472	29.463	29.395 A	29.337	29.309	29.333	12
13	29.556	29.569	29.604	29.640	29.515	29.599	29.468	29.461	29.397 E	29.335	29.309	29.332	13
14	29.556	29.569	29.604	29.636	29.520	29.593	29.462	29.458	29.400 A	29.331	29.309	29.333	14
15	29.556	29.569	29.603	29.630	29.518	29.584	29.462	29.458	29.399	29.329	29.312	29.333	15
16	29.556	29.568	29.602	29.627	29.519	29.576	29.465	29.468	29.398	29.326	29.328	29.332	16
17	29.557	29.569	29.599	29.621	29.519	29.570	29.471	29.465	29.395	29.321	29.336	29.333	17
18	29.557	29.569	29.598	29.616	29.516	29.562	29.472	29.462	29.393	29.317	29.334	29.333	18
19	29.560	29.569	29.597	29.612	29.512	29.557	29.471	29.458	29.394	29.313	29.334	29.333	19
20	29.562	29.569	29.598	29.607	29.512	29.550	29.471	29.455	29.391	29.312	29.333	29.333	20
21	29.561	29.568	29.604	29.600	29.549	29.546	29.469	29.453	29.390 E	29.310	29.331	29.333	21
22	29.561	29.569	29.618	29.595	29.570	29.545	29.472	29.446	29.387 E	29.308	29.328	29.334	22
23	29.561	29.570	29.652	29.589	29.574	29.539	29.472	29.442	29.385 E	29.306	29.329	29.334	23
24	29.560	29.573	29.682	29.584	29.574	29.530	29.468	29.439	29.382 E	29.306	29.327	29.334	24
25	29.561	29.579	29.712	29.580	29.571	29.522	29.464	29.436	29.379 E	29.304	29.327	29.334	25
26	29.562	29.580	29.718	29.577	29.586	29.521	29.462	29.434	29.376 E	29.307	29.326	29.335	26
27	29.563	29.583	29.719	29.572	29.593	29.516	29.459	29.431	29.374 E	29.311	29.327	29.334	27
28	29.562	29.585	29.717	29.566	29.595	29.510	29.456	29.428	29.371 A	29.309	29.326	29.334	28
29	29.565		29.706	29.560	29.593	29.505	29.454	29.420	29.371	29.310	29.326	29.335	29
30	29.568		29.695	29.556	29.590	29.500	29.449	29.417	29.366	29.310	29.327	29.336	30
31	29.568		29.683		29.584		29.455	29.417		29.310		29.336	31
MEAN	29.558	29.571	29.627	29.619	29.545	29.558	29.472	29.446	29.391	29.327	29.321	29.331	MEAN
MAX	29.568	29.585	29.719	29.676	29.595	29.602	29.501	29.468	29.410	29.368	29.336	29.336	MAX
MIN	29.551	29.568	29.587	29.556	29.511	29.500	29.449	29.417	29.366	29.304	29.309	29.325	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 29.719 METRES ON MAR 27
MINIMUM DAILY WATER LEVEL, 29.304 METRES ON OCT 25
MAXIMUM INSTANTANEOUS WATER LEVEL, 29.720 METRES AT 16:30 ON MAR 27

NORTHEAST INFLOW TO 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0000 E	0.0014	0.0019	0.0000	0.0000	0.0001	0.0016	0.0003	----	1
2	----	----	----	0.0000 E	0.0012	0.0011	0.0002	0.0001	0.0001	0.0037	0.0003	----	2
3	----	----	----	0.0000 E	0.0012	0.0005	0.0196	0.0002	0.0001	0.0028	0.0003	----	3
4	----	----	----	0.0000 E	0.0018	0.0002	0.0090	0.0001	0.0000	0.0022	0.0002	----	4
5	----	----	----	0.0000 E	0.0028	0.0001	0.0078	0.0000	0.0000	0.0020	0.0002	----	5
6	----	----	----	0.0000 A	0.0016	0.0003	0.0076	0.0000	0.0000	0.0022	0.0002	----	6
7	----	----	----	0.0000 E	0.0014	0.0015	0.0039	0.0000	0.0000	0.0134	0.0002	----	7
8	----	----	----	0.0000 E	0.0012	0.0008	0.0023	0.0000	0.0000	0.0073	0.0001 A	----	8
9	----	----	----	0.0000 E	0.0010	0.0015	0.0015	0.0000	0.0000	0.0052	----	----	9
10	----	0.0000 A	----	0.0000 E	0.0012	0.0025	0.0010	0.0000	0.0000	0.0103	----	----	10
11	0.0000 A	----	0.0000 A	0.0000 E	0.0012	0.0012	0.0006	0.0000	0.0000	0.0093	----	----	11
12	----	----	----	0.0000 E	0.0008	0.0007	0.0003	0.0000	0.0000	0.0067	----	----	12
13	----	----	----	0.0003 E	0.0008	0.0005	0.0001	0.0000	0.0000	0.0048	----	----	13
14	----	----	----	0.0008 E	0.0008	0.0007	0.0001	0.0000	0.0000	0.0036	----	0.0000 A	14
15	----	----	----	0.0206 E	0.0010	0.0004	0.0001	0.0000	0.0000	0.0028	----	----	15
16	----	----	----	0.0349 E	0.0014	0.0004	0.0001	0.0000	0.0000	0.0022	----	----	16
17	----	----	----	0.0143 E	0.0021	0.0003	0.0025	0.0000	0.0000	0.0019	----	----	17
18	----	----	----	0.0082	0.0062	0.0002	0.0009	0.0000	0.0000	0.0016	----	----	18
19	----	----	----	0.0087 E	0.0057	0.0001	0.0003	0.0000	0.0000	0.0012	----	----	19
20	----	----	----	0.0080 E	0.0039	0.0001	0.0001	0.0000	0.0000	0.0012	----	----	20
21	----	----	----	0.0073	0.0025	0.0001	0.0001	0.0000	0.0000	0.0008	----	----	21
22	----	----	----	0.0077	0.0016	0.0001	0.0000	0.0000	0.0000	0.0008	----	----	22
23	----	----	----	0.0096	0.0012	0.0000	0.0000	0.0000	0.0001	0.0008	0.0001 A	----	23
24	----	----	----	0.0084	0.0009	0.0000	0.0013	0.0000	0.0019	0.0006	----	----	24
25	----	----	----	0.0057	0.0006	0.0000	0.0003	0.0000	0.0006	0.0005	----	----	25
26	----	----	----	0.0052	0.0005	0.0000	0.0001	0.0000	0.0005	0.0005	----	----	26
27	----	----	----	0.0045	0.0003	0.0000	0.0000	0.0000	0.0005	0.0005	----	----	27
28	----	----	----	0.0019	0.0002	0.0000	0.0000	0.0000	0.0078	0.0005	----	----	28
29	----		----	0.0016	0.0002	0.0000	0.0000	0.0000	0.0039	0.0005	----	----	29
30	----		----	0.0016	0.0002	0.0000	0.0000	0.0000	0.0022	0.0006	----	----	30
31	----		----		0.0014		0.0000	0.0000		0.0005		0.0000 E	31
TOTAL	----	----	----	0.1493	0.0483	0.0152	0.0598	0.0004	0.0178	0.0926	----	----	TOTAL
MEAN	----	----	----	0.0050	0.0016	0.0005	0.0019	.0000	0.0006	0.0030	----	----	MEAN
MAX	----	----	----	0.0349 E	0.0062	0.0025	0.0196	0.0002	0.0078	0.0134	----	----	MAX
MIN	----	----	----	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0005	----	----	MIN

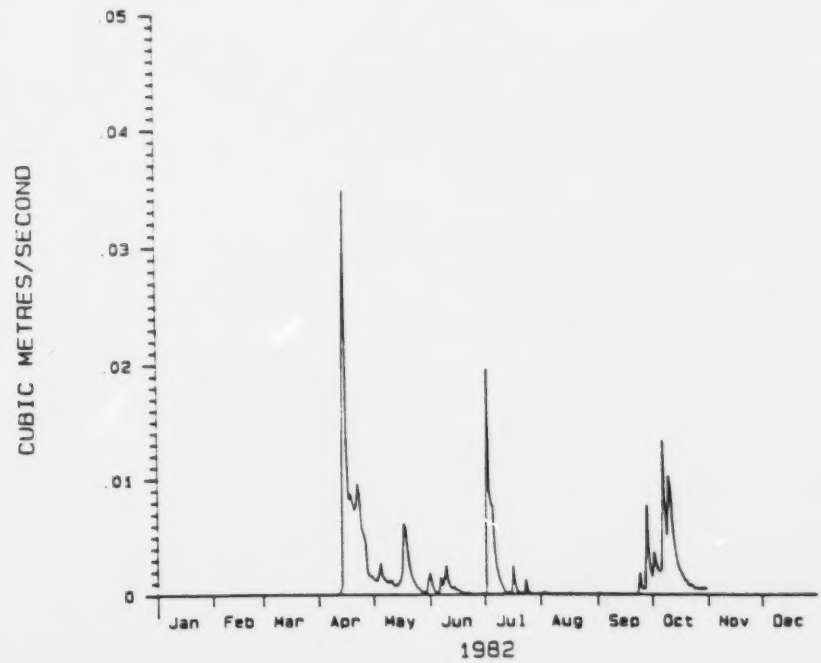
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	12900	4173	1313	5167	35	1538	8001	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	33126	CUBIC METRES	
MEAN DISCHARGE,	0.0018	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0349	CUBIC METRES/SEC	ON APR 16
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON APR 6
MAX INSTANTANEOUS FLOW,	0.0583	CUBIC METRES/SEC	ON APR 16

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



NORTHEAST INFLOW TO LAKE Z99
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0001 E	0.0012	0.0003	0.0003	0.0000	0.0000	0.0003	0.0000	—	1
2	—	—	—	0.0001 E	0.0012	0.0002	0.0002	0.0000	0.0000	0.0002	0.0000	—	2
3	—	—	—	0.0002 E	0.0012	0.0003	0.0008	0.0000 S	0.0000	0.0001	0.0000	—	3
4	—	—	—	0.0003 E	0.0012	0.0006	0.0022	0.0001	0.0000	0.0001	0.0000	—	4
5	—	—	—	0.0004 E	0.0010	0.0005	0.0010	0.0001	0.0000	0.0003	0.0000	—	5
6	—	—	—	0.0005 E	0.0010	0.0002	0.0005 E	0.0000	0.0000	0.0002	0.0000	—	6
7	—	—	—	0.0006	0.0008	0.0002	0.0069 E	0.0000	0.0000	0.0001	0.0000	—	7
8	—	—	—	0.0012	0.0006	0.0001	0.0130 E	0.0000	0.0000	0.0000	0.0000	—	8
9	—	—	—	0.0019	0.0007	0.0001	0.0049	0.0000	0.0000	0.0000	0.0000	—	9
10	—	—	—	0.0042	0.0005	0.0001	0.0022	0.0000	0.0000	0.0001	0.0000	—	10
11	—	—	—	0.0130	0.0008	0.0001	0.0010	0.0000	0.0000	0.0005 E	0.0000	—	11
12	—	—	—	0.0117	0.0016	0.0000	0.0006	0.0000	0.0000	0.0005 E	0.0000	—	12
13	—	—	—	0.0100	0.0012	0.0001	0.0002	0.0000	0.0000	0.0001	0.0000	—	13
14	—	—	—	0.0046	0.0029	0.0067	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000 A	14
15	—	—	0.0000 A	0.0028	0.0014	0.0039	0.0000	0.0000	0.0000	0.0001	0.0000	—	15
16	—	—	—	0.0019	0.0012	0.0028	0.0002	0.0000	0.0000	0.0002	0.0000	—	16
17	—	—	—	0.0014	0.0008	0.0019	0.0001	0.0000	0.0000	0.0001	0.0000	—	17
18	—	—	—	0.0012	0.0010	0.0012	0.0000	0.0000	0.0000	0.0001	0.0000	—	18
19	—	—	—	0.0012	0.0010	0.0008	0.0000	0.0000	0.0000	0.0001	—	—	19
20	—	—	—	0.0014	0.0010	0.0006	0.0000	0.0000	0.0000	0.0001	—	—	20
21	—	—	—	0.0022	0.0008	0.0003	0.0000	0.0000	0.0000	0.0001	—	—	21
22	—	—	—	0.0025	0.0019	0.0012	0.0000	0.0000	0.0000	0.0001	—	—	22
23	—	—	—	0.0019	0.0014	0.0006	0.0000	0.0000	0.0000	0.0001	—	—	23
24	—	—	—	0.0019	0.0014	0.0002	0.0000	0.0000	0.0000	0.0001	—	—	24
25	—	—	—	0.0022	0.0012	0.0001	0.0000	0.0000	0.0000	0.0001	—	—	25
26	—	—	—	0.0029	0.0008	0.0001	0.0000	0.0000	0.0000	0.0001	—	—	26
27	—	—	0.0000 A	0.0023	0.0006	0.0001	0.0000	0.0000	0.0000 S	0.0001	—	—	27
28	—	—	—	0.0016	0.0008	0.0000	0.0000 S	0.0000	0.0000	0.0001	—	—	28
29	—	—	—	0.0016	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	29
30	—	—	—	0.0014	0.0008	0.0003	0.0000	0.0000	0.0000	0.0000	—	—	30
31	—	—	—		0.0005		0.0000	0.0000 S		0.0000		0.0000 E	31
TOTAL	—	—	—	0.0756	0.0348	0.0276	0.0342	0.0002	0.0000	0.0043	—	—	TOTAL
MEAN	—	—	—	0.0025	0.0011	0.0008	0.0011	0.0000	0.0000	0.0001	—	—	MEAN
MAX	—	—	—	0.0117	0.0032	0.0067	0.0130	0.0001	0.0000	0.0005	—	—	MAX
MIN	—	—	—	0.0001	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

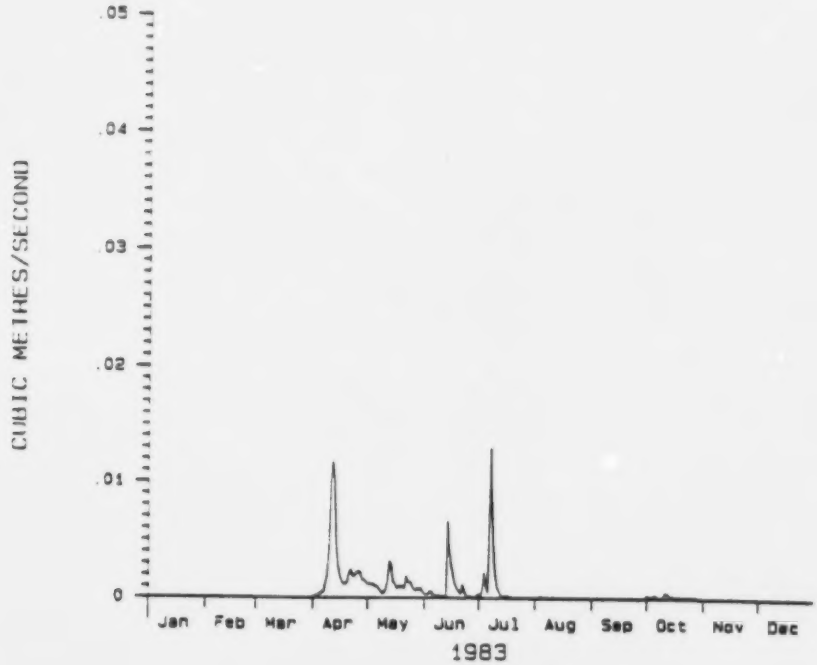
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	6522	3007	2039	2955	17	0	372	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	14921	CUBIC METRES
MEAN DISCHARGE,	0.0008	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0130	CUBIC METRES/SEC ON JUL 8
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 12
MAX INSTANTANEOUS FLOW,	0.0183	CUBIC METRES/SEC ON JUL 8

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
S SIMULATED RAINSTORM, IRRIGATION



NORTHEAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0003	0.0012	0.0001	0.0020	0.0000	0.0000	0.0000	0.0006	—	1
2	—	—	—	0.0004	0.0010	0.0001	0.0012	0.0000	0.0000	0.0000	0.0006	—	2
3	—	—	—	0.0009	0.0010 E	0.0000	0.0014	0.0000	0.0000	0.0000	0.0006	0.0007 A	3
4	—	—	—	0.0012	0.0010 E	0.0000	0.0007	0.0000	0.0000	0.0000	0.0005	—	4
5	—	—	—	0.0018	0.0010 E	0.0016	0.0007	0.0000	0.0000	0.0000	0.0004 A	—	5
6	—	—	—	0.0034	0.0020 E	0.0010	0.0004	0.0000	0.0000	0.0000	—	—	6
7	—	—	0.0000 A	0.0058	0.0019 E	0.0002	0.0003	0.0000	0.0000	0.0000	0.0006 A	—	7
8	—	0.0000 A	—	0.0072	0.0018 A	0.0024	0.0002	0.0000	0.0000	0.0000	—	—	8
9	—	—	—	0.0091 A	0.0014 A	0.0030	0.0001	0.0000	0.0000	0.0000	—	—	9
10	—	—	—	0.0068	0.0014 E	0.0020	0.0000 S	0.0000	0.0000	0.0000 S	—	0.0005 A	10
11	—	—	—	0.0056	0.0014 A	0.0012	0.0000	0.0000	0.0000	0.0000	—	—	11
12	—	—	—	0.0048	0.0016	0.0011	0.0000	0.0000	0.0000 S	0.0000	0.0007 A	—	12
13	—	—	—	0.0040	0.0010	0.0031	0.0001	0.0000	0.0000	0.0000	—	—	13
14	—	—	—	0.0034	0.0007	0.0018	0.0002	0.0000	0.0000	0.0016	—	—	14
15	—	—	—	0.0027	0.0004	0.0010	0.0001	0.0000 S	0.0000	0.0020	—	—	15
16	—	—	—	0.0022	0.0004	0.0009	0.0001	0.0000	0.0000	0.0012	—	—	16
17	—	—	—	0.0020	0.0007	0.0006	0.0002	0.0000	0.0000	0.0088	—	—	17
18	—	—	—	0.0018	0.0002	0.0004	0.0002 S	0.0000	0.0000	0.0045	0.0006 A	—	18
19	—	—	—	0.0016	0.0003	0.0002 S	0.0002	0.0000	0.0000	0.0071	—	—	19
20	—	—	—	0.0012	0.0003	0.0003 S	0.0001	0.0000	0.0000	0.0066	—	—	20
21	—	—	—	0.0009	0.0006	0.0006	0.0001	0.0000	0.0000	0.0050	—	—	21
22	—	—	—	0.0007	0.0004 S	0.0014	0.0001	0.0000	0.0000	0.0040	—	—	22
23	—	—	—	0.0006	0.0006 S	0.0010	0.0000	0.0000	0.0000	0.0030	0.0007 A	—	23
24	—	—	—	0.0004	0.0012	0.0007	0.0000	0.0000	0.0000	0.0025	—	—	24
25	—	—	—	0.0007	0.0009	0.0003	0.0000	0.0000	0.0000	0.0022	—	—	25
26	—	—	—	0.0007	0.0006	0.0008 S	0.0000	0.0000	0.0000	0.0020	0.0007 A	—	26
27	—	—	—	0.0016	0.0004	0.0065 S	0.0000	0.0000	0.0000	0.0018	—	—	27
28	—	—	—	0.0024	0.0003	0.0114 S	0.0000	0.0000	0.0000	0.0018	—	—	28
29	—	—	0.0000 A	0.0019	0.0002	0.0081	0.0000	0.0000	0.0000	0.0014	0.0012 A	—	29
30	—	—	0.0001	0.0014	0.0002	0.0058	0.0000	0.0000	0.0000	0.0010	—	—	30
31	—	—	0.0002		0.0001		0.0000	0.0000		0.0007		0.0000 E	31
TOTAL	—	—	—	0.0774	0.0258	0.0576	0.0084	0.0000	0.0000	0.0572	—	—	TOTAL
MEAN	—	—	—	0.0026	0.0008	0.0019	0.0003	0.0000	0.0000	0.0018	—	—	MEAN
MAX	—	—	—	0.0091	0.0020	0.0114	0.0020	0.0000	0.0000	0.0088	—	—	MAX
MIN	—	—	—	0.0003	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

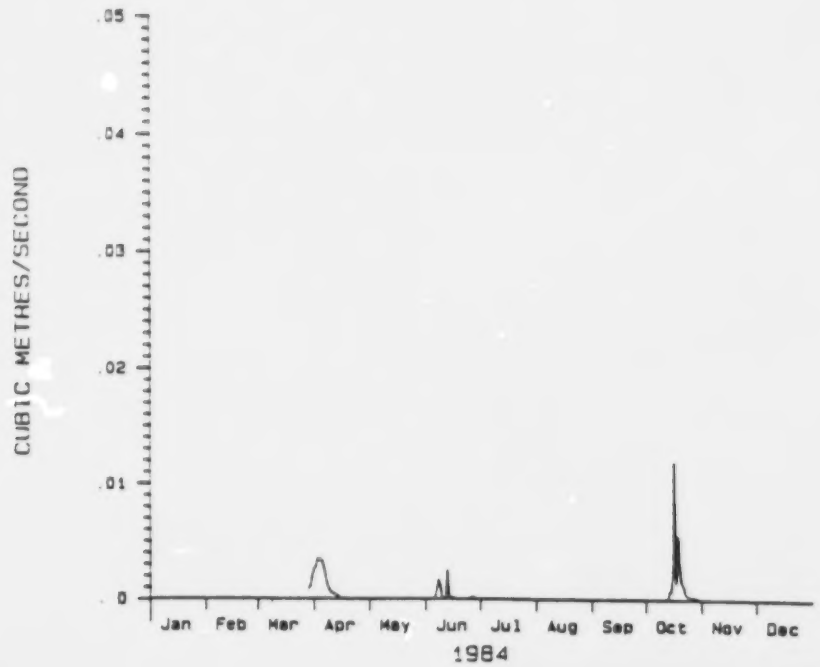
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	6687	2229	4977	726	0	0	4942	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	19561	CUBIC METRES	
MEAN DISCHARGE,	0.0011	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0114	CUBIC METRES/SEC	ON JUN 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUN 03
MAX INSTANTANEOUS FLOW,	0.0130	CUBIC METRES/SEC	ON JUN 28

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
S SIMULATED RAINSTORM, IRRIGATION



NORTHEAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0001 E	0.0038	0.0012	0.0021	0.0000	0.0004	0.0011	0.0004	—	1
2	—	—	—	0.0001 A	0.0022	0.0010	0.0015	0.0000	0.0010	0.0010	0.0004	—	2
3	—	—	—	0.0001 E	0.0023	0.0005	0.0009	0.0000	0.0022	0.0013	0.0004	—	3
4	—	—	—	0.0002	0.0060	0.0003	0.0008	0.0000	0.0019	0.0009	0.0003	—	4
5	—	—	—	0.0003	0.0056	0.0002	0.0004	0.0001	0.0014	0.0013	0.0004	—	5
6	—	—	—	0.0005	0.0066	0.0004	0.0001	0.0000	0.0009	0.0010	0.0005	—	6
7	—	—	—	0.0007	0.0076	0.0004	0.0001	0.0000	0.0004	0.0001	—	—	7
8	—	—	—	0.0007	0.0052	0.0004	0.0000	0.0000	0.0007	0.0015	—	—	8
9	—	—	—	0.0008	0.0045	0.0003	0.0000	0.0000	0.0002	0.0017	—	0.0002 A	9
10	—	—	—	0.0012	0.0036	0.0003	0.0000	0.0000	0.0002	0.0017	—	—	10
11	—	—	—	0.0010	0.0092	0.0001	0.0000	0.0000	0.0001	0.0026	—	0.0002 A	11
12	—	—	—	0.0016	0.0104	0.0001	0.0000	0.0005	0.0001	0.0049	—	—	12
13	—	—	—	0.0018	0.0181	0.0003	0.0000	0.0028	0.0001	0.0055	—	—	13
14	—	—	—	0.0029	0.0120	0.0001	0.0000	0.0022	0.0001	0.0046	—	—	14
15	—	—	—	0.0038	0.0126	0.0002	0.0000	0.0010	0.0001	0.0039 S	—	—	15
16	—	—	—	0.0035	0.0133 E	0.0002	0.0000	0.0006	0.0002	0.0042 S	—	—	16
17	—	—	—	0.0026	0.0076 E	0.0026	0.0000	0.0079	0.0002 S	0.0043	—	—	17
18	—	—	—	0.0027	0.0056 E	0.0012	0.0001	0.0048	0.0006 S	0.0029	—	—	18
19	—	—	0.0000 A	0.0023	0.0042 E	0.0007	0.0000	0.0033 S	0.0250	0.0023	—	—	19
20	—	0.0000 A	0.0000 A	0.0026	0.0032 E	0.0003	0.0010	0.0023	0.0280	0.0017	—	—	20
21	0.0000 A	—	—	0.0201	0.0025 S	0.0007	0.0004	0.0026 S	0.0134	0.0017	—	—	21
22	—	—	—	0.0445	0.0028 S	0.0092	0.0001	0.0014	0.0084	0.0014	—	—	22
23	—	—	—	0.0306	0.0026	0.0041	0.0007 S	0.0029	0.0057	0.0012	—	—	23
24	—	—	—	0.0184	0.0018	0.0025 S	0.0011 S	0.0019	0.0052	0.0010	—	—	24
25	—	—	—	0.0154	0.0014	0.0029	0.0009 S	0.0011	0.0039	0.0009	—	—	25
26	—	—	—	0.0120	0.0012	0.0048 S	0.0004	0.0009	0.0026	0.0009	—	—	26
27	—	—	—	0.0090	0.0008	0.0060	0.0002	0.0008	0.0022	0.0008	—	—	27
28	—	—	—	0.0060	0.0006	0.0072	0.0001	0.0005	0.0020	0.0007	0.0002 A	—	28
29	—	—	—	0.0054	0.0023	0.0046	0.0000	0.0003	0.0016	0.0006	—	—	29
30	—	—	—	0.0045	0.0026	0.0035	0.0000	0.0002	0.0016	0.0004	—	—	30
31	—	—	—		0.0014		0.0000	0.0003		0.0004		0.0000 E	31
TOTAL	—	—	—	0.1950	0.1646	0.0596	0.0129	0.0404	0.1100	0.0585	—	—	TOTAL
MEAN	—	—	—	0.0065	0.0053	0.0020	0.0004	0.0013	0.0037	0.0019	—	—	MEAN
MAX	—	—	—	0.0445	0.0181	0.0092	0.0021	0.0079	0.0280	0.0055	—	—	MAX
MIN	—	—	—	0.0001	0.0006	0.0001	0.0000	0.0000	0.0001	0.0001	—	—	MIN

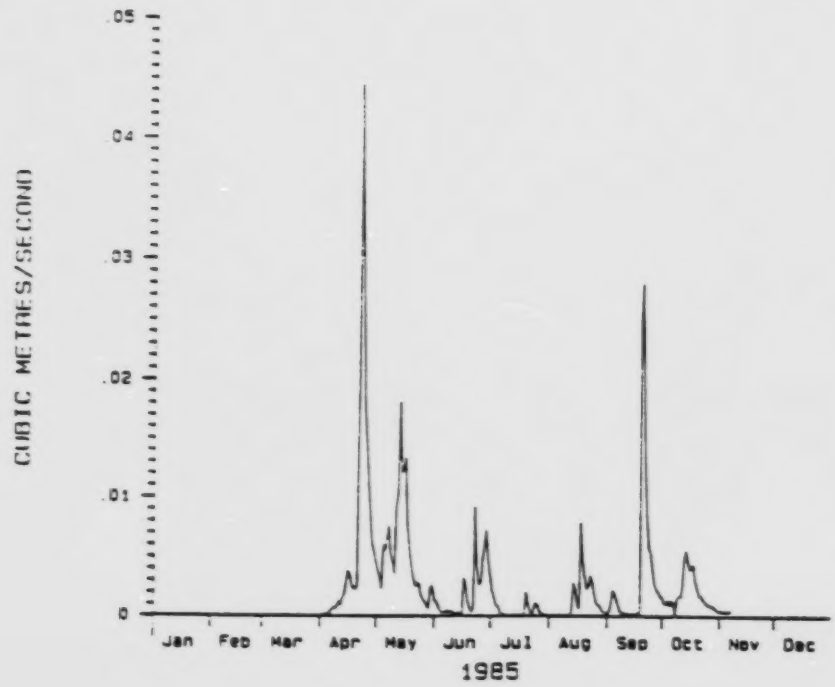
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	16848	14221	5149	1115	3491	9504	5054	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	55382	CUBIC METRES
MEAN DISCHARGE,	0.0090	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0445	CUBIC METRES/SEC ON APR 22
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUL 08
MAX INSTANTANEOUS FLOW,	0.0701	CUBIC METRES/SEC ON APR 21

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE
S SIMULATED RAINSTORM, IRRIGATION



NORTHEAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0076	0.0121	0.0000	0.0000	0.0000	0.0000	0.0007 S	0.0000 E	—	1
2	—	—	—	0.0094	0.0084	0.0000	0.0000	0.0000	0.0000 S	0.0022	0.0000 E	—	2
3	—	—	—	0.0102	0.0098	0.0000	0.0000	0.0000	0.0041 S	0.0017	0.0000 E	—	3
4	—	—	—	0.0103	0.0046	0.0000	0.0000	0.0000	0.0029	0.0009	0.0000 A	—	4
5	—	—	0.0000 A	0.0096	0.0088	0.0000	0.0010	0.0000 S	0.0015	0.0007	—	—	5
6	—	—	—	0.0080	0.0064	0.0000	0.0005	0.0000 S	0.0008	0.0005	—	—	6
7	—	—	—	0.0078	0.0050	0.0000	0.0001	0.0000	0.0004	0.0008	—	—	7
8	—	—	—	0.0065	0.0078	0.0000	0.0000 S	0.0000	0.0002	0.0005	—	0.0001 A	8
9	—	—	—	0.0051	0.0033	0.0000	0.0000 S	0.0000	0.0001	0.0003	—	0.0000 A	9
10	—	—	—	0.0041	0.0028	0.0000 S	0.0000	0.0000	0.0000	0.0003	—	—	10
11	—	—	—	0.0034	0.0024	0.0000 S	0.0004	0.0000	0.0000	0.0004	—	—	11
12	—	—	—	0.0030	0.0021	0.0000	0.0006	0.0000	0.0001	0.0003	—	—	12
13	—	—	—	0.0026	0.0016 S	0.0000	0.0004	0.0000	0.0001	0.0002	—	—	13
14	—	—	—	0.0023	0.0014 S	0.0000	0.0002	0.0000	0.0001	0.0002	—	—	14
15	—	—	—	0.0021	0.0017	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	15
16	—	—	—	0.0018	0.0012	0.0000	0.0000	0.0000	0.0000	0.0001	—	—	16
17	—	0.0000 A	—	0.0016	0.0009	0.0000	0.0000	0.0001	0.0004	0.0001	—	—	17
18	—	—	—	0.0017	0.0007	0.0000	0.0000	0.0000	0.0005	0.0001	—	—	18
19	—	—	—	0.0046	0.0005	0.0000	0.0000	0.0001	0.0002	0.0001	—	—	19
20	0.0000 A	—	—	0.0056	0.0004	0.0000	0.0000	0.0001	0.0001	0.0001	—	—	20
21	—	—	—	0.0042	0.0002	0.0000	0.0000	0.0000	0.0002	0.0001	—	—	21
22	—	—	—	0.0029	0.0001	0.0000	0.0000	0.0000	0.0007	0.0001	—	—	22
23	—	—	—	0.0024	0.0001	0.0000	0.0000	0.0000	0.0005	0.0001	—	—	23
24	—	—	—	0.0022	0.0001	0.0000	0.0000	0.0000	0.0002	0.0001	—	—	24
25	—	—	—	0.0020	0.0001	0.0000	0.0000	0.0000	0.0005	0.0000	—	—	25
26	—	—	0.0000 A	0.0064	0.0000	0.0002	0.0000	0.0000	0.0006	0.0000	0.0000 A	—	26
27	—	—	0.0000	0.0067	0.0000	0.0001	0.0000	0.0000	0.0008	0.0000	—	—	27
28	—	—	0.0064 E	0.0199	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	—	—	28
29	—	—	0.0009	0.0166	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	—	—	29
30	—	—	0.0027	0.0108	0.0000	0.0000	0.0000	0.0000	0.0005 S	0.0000	—	—	30
31	—	—	0.0050		0.0000		0.0000	0.0000		0.0001 E		0.0000 E	31
TOTAL	—	—	—	0.1814	0.0745	0.0003	0.0032	0.0006	0.0163	0.0109	—	—	TOTAL
MEAN	—	—	—	0.0060	0.0024	0.0000	0.0001	0.0000	0.0005	0.0004	—	—	MEAN
MAX	—	—	—	0.0199	0.0121	0.0002	0.0010	0.0001	0.0041	0.0022	—	—	MAX
MIN	—	—	—	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

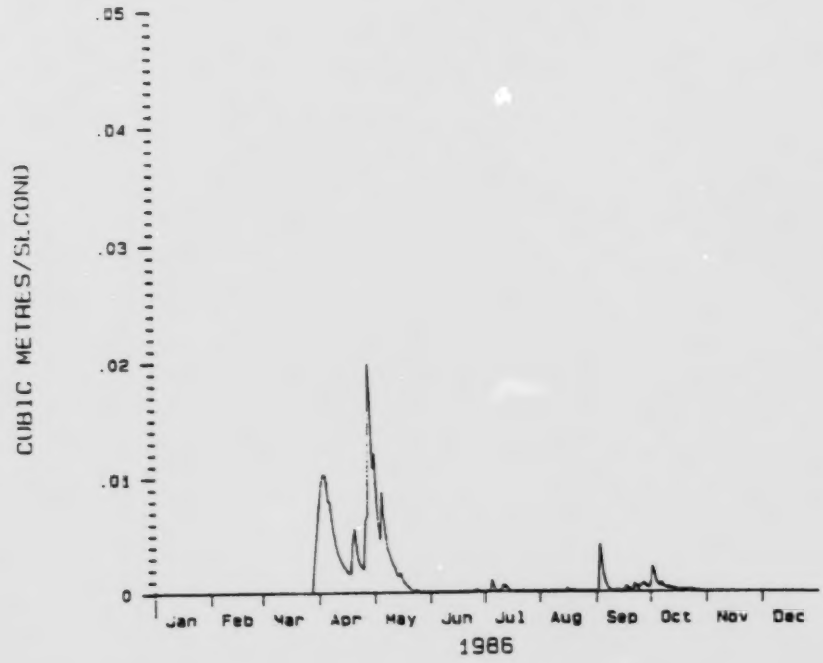
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	15673	6437	26	276	52	1408	942	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	24814	CUBIC METRES
MEAN DISCHARGE,	0.0013	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0199	CUBIC METRES/SEC ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 26
MAX INSTANTANEOUS FLOW,	0.0238	CUBIC METRES/SEC ON APR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
S SIMULATED RAINSTORM, IRRIGATION
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



NORTHEAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0016	0.0001 E	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0000 E	0.0016	0.0001 E	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	0.0000 E	0.0017	0.0000 E	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0000 A	0.0012	0.0000 E	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 E	0.0012	0.0000 A	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0018	0.0000 A	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0021	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000 S	----	----	7
8	----	----	0.0000 E	0.0023	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0024	0.0000	0.0001 S	0.0000	0.0000	0.0000 S	0.0000	----	----	9
10	----	----	0.0000 E	0.0024	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0020	0.0000	0.0056	0.0000	0.0006	0.0000	0.0000	0.0000 A	----	11
12	----	----	0.0000 E	0.0017	0.0000	0.0023	0.0000	0.0024 S	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0013	0.0000	0.0010	0.0000	0.0010	0.0000	0.0001	----	----	13
14	----	----	0.0000 E	0.0010	0.0000	0.0005	0.0000	0.0003	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0007	0.0000	0.0002	0.0000 S	0.0004	0.0000	0.0000	----	----	15
16	----	0.0000 A	0.0000 E	0.0005	0.0000	0.0001	0.0000	0.0014	0.0000	0.0000	----	----	16
17	----	----	0.0000 E	0.0005	0.0000	0.0001 S	0.0000	0.0006	0.0000	0.0000	----	0.0000 A	17
18	----	----	0.0000 E	0.0005	0.0000	0.0003	0.0004	0.0003	0.0000	0.0000	----	----	18
19	0.0000 A	----	0.0000 E	0.0005	0.0000 S	0.0000	0.0010	0.0002 S	0.0000	0.0000	----	----	19
20	----	----	0.0005 E	0.0004	0.0003 S	0.0000	0.0009	0.0001	0.0000	0.0000	----	----	20
21	----	----	0.0021 E	0.0003 E	0.0062	0.0000	0.0000	0.0001	0.0000	0.0000	----	----	21
22	----	----	0.0024 E	0.0002 E	0.0048	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	22
23	----	----	0.0115 A	0.0002 E	0.0024	0.0000	0.0001	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0040	0.0002 E	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	24
25	----	----	0.0042	0.0002 E	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0047	0.0002 E	0.0033	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	26
27	----	----	0.0046	0.0002 E	0.0024	0.0000	0.0000	0.0000	0.0000	0.0002	----	----	27
28	----	----	0.0048	0.0002 A	0.0015	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	28
29	----		0.0034	0.0001 E	0.0008	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	29
30	----		0.0025	0.0001 E	0.0004	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	30
31	----		0.0016		0.0002		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.0459	0.0293	0.0251	0.0140	0.0025	0.0074	0.0000	0.0007	----	----	TOTAL
MEAN	----	----	0.0015	0.0010	0.0008	0.0005	0.0001	0.0002	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0115	0.0024	0.0062	0.0056	0.0010	0.0024	0.0000	0.0002	----	----	MAX
MIN	----	----	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

MONTHLY DISCHARGES IN CUBIC METRES

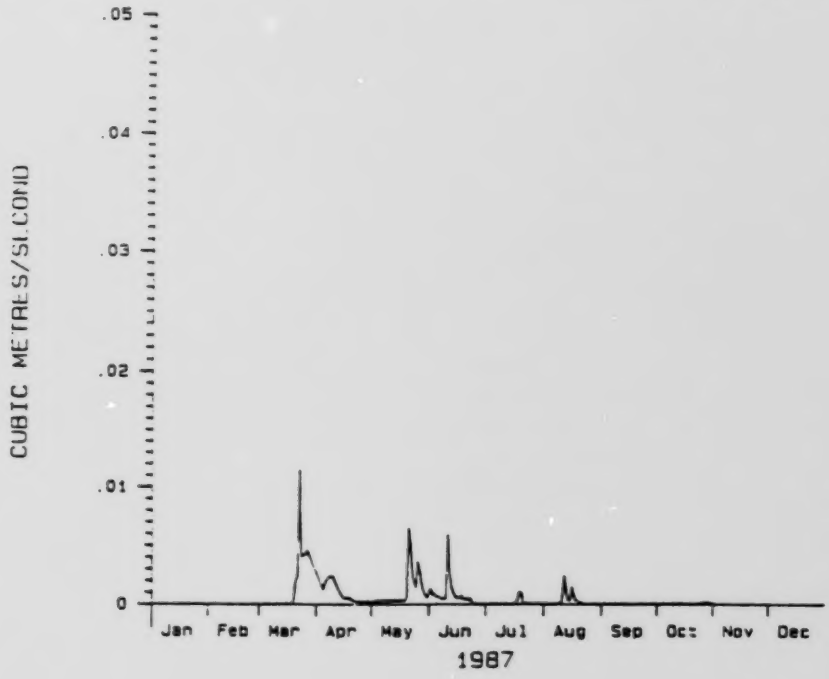
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	3957	2532	2169	1210	216	639	0	60	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	10783	CUBIC METRES
MEAN DISCHARGE,	0.0005	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0062	CUBIC METRES/SEC ON MAY 21
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 03
MAX INSTANTANEOUS FLOW,	0.0086	CUBIC METRES/SEC ON MAY 21

SMALL LEAKAGE FACTOR WAS INCORPORATED
FROM MARCH 23 TO MAY 02

S SIMULATED RAINSTORM, IRRIGATION
A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
--- NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO 259
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0006 A	0.0059	0.0053	0.0001	0.0009 E	0.0013	0.0103	0.0021	—	1
2	—	—	—	0.0005 E	0.0049	0.0052	0.0032	0.0018 E	0.0009	0.0163	0.0021 A	—	2
3	—	—	—	0.0004 E	0.0046	0.0040	0.0739 E	0.0018 A	0.0006	0.0182	0.0021 E	—	3
4	—	—	—	0.0003 E	0.0056	0.0028	0.0319	0.0014	0.0004	0.0132	0.0018 E	—	4
5	—	—	—	0.0003 E	0.0085	0.0020	0.0226	0.0009	0.0002	0.0103	0.0016 E	—	5
6	—	—	—	0.0002 E	0.0064	0.0022	0.0242	0.0005	0.0002	0.0087	0.0015 E	—	6
7	—	—	—	0.0002 A	0.0055	0.0048	0.0132	0.0005	0.0002	0.0585	0.0015 E	—	7
8	—	—	—	0.0001	0.0047	0.0040	0.0084	0.0008	0.0002	0.0263	0.0013 A	—	8
9	—	—	—	0.0001	0.0039	0.0060	0.0059	0.0007	0.0001	0.0155	—	—	9
10	—	0.0000 A	—	0.0001	0.0040	0.0156	0.0047	0.0005	0.0001	0.0285	—	—	10
11	0.0000 A	—	0.0000 A	0.0001	0.0044	0.0107	0.0036	0.0004	0.0001	0.0298	—	—	11
12	—	—	—	0.0002	0.0038	0.0073	0.0030	0.0003	0.0002	0.0186	—	—	12
13	—	—	—	0.0005	0.0035	0.0052	0.0031	0.0006	0.0002	0.0129	—	—	13
14	—	—	—	0.0032	0.0034	0.0047	0.0025	0.0004	0.0003	0.0096	—	0.0003 A	14
15	—	—	—	0.0777 E	0.0042	0.0039	0.0020	0.0003	0.0002	0.0081	—	—	15
16	—	—	—	0.1320 E	0.0048	0.0030	0.0018	0.0002	0.0002	0.0065	—	—	16
17	—	—	—	0.0535	0.0064	0.0072	0.0084	0.0002	0.0002	0.0059	—	—	17
18	—	—	—	0.0314	0.0187	0.0025	0.0073	0.0002	0.0002	0.0059	—	—	18
19	—	—	—	0.0329	0.0223	0.0020	0.0046	0.0002	0.0002	0.0053	—	—	19
20	—	—	—	0.0300	0.0125	0.0016	0.0032	0.0001	0.0002	0.0045	—	—	20
21	—	—	—	0.0279	0.0082	0.0016	0.0025	0.0002	0.0001	0.0043	—	—	21
22	—	—	—	0.0345	0.0059	0.0012	0.0018	0.0003	0.0001	0.0038	—	—	22
23	—	—	—	0.0321	0.0043	0.0011	0.0016	0.0003	0.0021	0.0033	0.0036 A	—	23
24	—	—	—	0.0246	0.0043	0.0010	0.0053	0.0002	0.0022	0.0030	—	—	24
25	—	—	—	0.0185	0.0031	0.0007	0.0040	0.0002	0.0014	0.0029	—	—	25
26	—	—	—	0.0136	0.0025	0.0005	0.0027	0.0002	0.0011	0.0026	—	—	26
27	—	—	—	0.0107	0.0020	0.0003	0.0020	0.0002	0.0017	0.0025	—	—	27
28	—	—	—	0.0086	0.0015	0.0002	0.0015 A	0.0001	0.0255	0.0026	—	—	28
29	—		—	0.0073	0.0016	0.0002	0.0015 A	0.0002	0.0251	0.0025	—	—	29
30	—		—	0.0061	0.0015	0.0001	0.0013 E	0.0002	0.0146	0.0027	—	—	30
31	—		—		0.0038		0.0010 E	0.0002		0.0025		0.0003 E	31
TOTAL	—	—	—	0.5482	0.1763	0.1029	0.2528	0.0150	0.0802	0.3456	—	—	TOTAL
MEAN	—	—	—	0.0183	0.0057	0.0034	0.0082	0.0005	0.0027	0.0111	—	—	MEAN
MAX	—	—	—	0.1320	0.0223	0.0156	0.0739	0.0018	0.0255	0.0585	—	—	MAX
MIN	—	—	—	0.0001	0.0015	0.0001	0.0001	0.0001	0.0001	0.0025	—	—	MIN

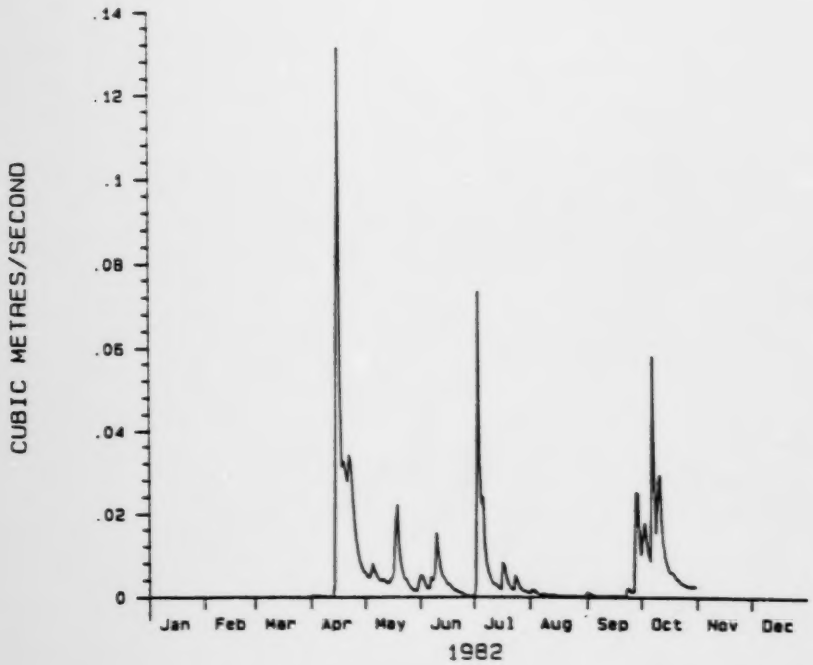
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	47364	15232	8891	21842	1296	6929	29860	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	131414	CUBIC METRES		
MEAN DISCHARGE,	0.0071	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.1320	CUBIC METRES/SEC	ON APR 16	
MIN DAILY DISCHARGE,	0.0001	CUBIC METRES/SEC	ON APR 8	
MAX INSTANTANEOUS FLOW,	M	CUBIC METRES/SEC	ON APR 16	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO LAKE Z99
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0003 E	—	—	0.0003	0.0080	0.0022	0.0017	0.0002	0.0000	0.0005	0.0000	—	1
2	—	—	—	0.0007	0.0072	0.0019	0.0015	0.0001	0.0000	0.0004	0.0000	—	2
3	—	—	—	0.0010	0.0069	0.0019	0.0031	0.0001	0.0000	0.0003	0.0000	—	3
4	—	—	—	0.0015	0.0064	0.0025	0.0097	0.0000	0.0000	0.0002	0.0000	—	4
5	—	—	—	0.0025	0.0056	0.0019	0.0100	0.0001	0.0000	0.0006	0.0000	—	5
6	—	—	—	0.0045	0.0052	0.0014	0.0075	0.0000	0.0000	0.0004	0.0000	—	6
7	—	—	—	0.0071	0.0047	0.0011	0.0055	0.0000	0.0000	0.0003	0.0000	—	7
8	—	—	—	0.0111	0.0042	0.0010	0.0028	0.0000	0.0000	0.0002	0.0000	—	8
9	—	—	—	0.0265	0.0037	0.0007	0.0022	0.0000	0.0000	0.0002	0.0000	—	9
10	—	—	—	0.0364	0.0042	0.0006	0.0017	0.0000	0.0000	0.0002	0.0000	—	10
11	—	—	—	0.0477	0.0053	0.0006	0.0013	0.0000	0.0000	0.0003	0.0000	—	11
12	—	—	—	0.0467	0.0076	0.0004	0.0010	0.0000	0.0000	0.0002	0.0000	—	12
13	0.0003 A	—	—	0.0332	0.0107	0.0006	0.0006	0.0000	0.0000	0.0002	0.0000	0.0002 A	13
14	—	0.0000 A	—	0.0187	0.0091	0.0175	0.0004	0.0000	0.0000	0.0002	0.0000	—	14
15	—	—	0.0000 A	0.0159	0.0074	0.0227	0.0003	0.0000	0.0000	0.0002	0.0000	—	15
16	—	—	—	0.0120	0.0063	0.0240	0.0006	0.0000	0.0000	0.0004	0.0000	—	16
17	—	—	0.0001 A	0.0102	0.0053	0.0131	0.0007	0.0000	0.0000	0.0003	0.0000	—	17
18	—	—	—	0.0115	0.0054	0.0086	0.0004	0.0000	0.0000	0.0002	0.0000	—	18
19	—	—	—	0.0169	0.0044	0.0070	0.0004	0.0000	0.0000	0.0002	0.0000 A	—	19
20	—	—	—	0.0208	0.0036	0.0053	0.0003	0.0000	0.0000	0.0002	—	—	20
21	—	—	—	0.0241	0.0031	0.0036	0.0001	0.0000	0.0000	0.0002	—	—	21
22	—	—	—	0.0219	0.0058	0.0072	0.0001	0.0000	0.0000	0.0002	—	—	22
23	—	—	—	0.0169	0.0054	0.0064	0.0000	0.0000	0.0000	0.0002	—	—	23
24	—	—	—	0.0148	0.0047	0.0034	0.0000	0.0000	0.0000	0.0003	—	—	24
25	—	—	—	0.0144	0.0031	0.0025	0.0000	0.0000	0.0000	0.0003	—	—	25
26	—	—	—	0.0139	0.0026	0.0018	0.0000	0.0000	0.0000	0.0002	—	—	26
27	—	—	0.0000 A	0.0127	0.0025	0.0014	0.0000	0.0000	0.0000	0.0002	—	—	27
28	—	—	—	0.0097	0.0026	0.0010	0.0000	0.0000	0.0000	0.0002	—	—	28
29	—	—	—	0.0096	0.0027	0.0009	0.0000	0.0000	0.0000	0.0002	—	—	29
30	—	—	—	0.0087	0.0026	0.0022	0.0000	0.0000	0.0000	0.0001	—	—	30
31	—		—		0.0025		0.0004	0.0000		0.0001		0.0000 E	31
TOTAL	—	—	—	0.4775	0.1588	0.1454	0.0523	0.0005	0.0000	0.0079	—	—	TOTAL
MEAN	—	—	—	0.0158	0.0051	0.0048	0.0017	0.0000	0.0000	0.0003	—	—	MEAN
MAX	—	—	—	0.0477	0.0107	0.0240	0.0100	0.0002	0.0000	0.0006	—	—	MAX
MIN	—	—	—	0.0003	0.0025	0.0004	0.0000	0.0000	0.0000	0.0001	—	—	MIN

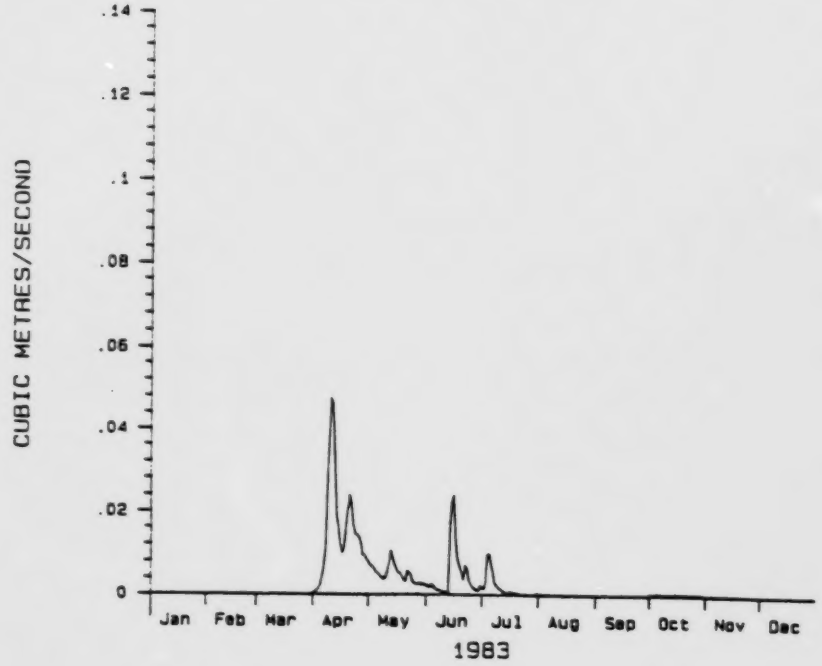
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	40910	13720	12563	4519	43	0	683	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	72438	CUBIC METRES		
MEAN DISCHARGE,	0.0040	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.0477	CUBIC METRES/SEC ON	APR 11	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	JUL 23	
MAX INSTANTANEOUS FLOW,	0.0682	CUBIC METRES/SEC ON	APR 11	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0011	0.0050	0.0002	0.0013	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0088	0.0033	0.0001	0.0013	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0183	0.0030	0.0000	0.0014	0.0000	0.0000	0.0000	----	0.0015 A	3
4	----	----	----	0.0285	0.0024	0.0001	0.0008	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0413	0.0019	0.0028	0.0008	0.0000	0.0000	0.0000	0.0021 A	----	5
6	----	----	0.0000 A	0.0483	0.0019	0.0016	0.0007	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0419	0.0051	0.0064	0.0004	0.0000	0.0000	0.0000	0.0016 A	----	7
8	----	0.0000 A	----	0.0345	0.0066	0.0093	0.0003	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0282	0.0065	0.0177	0.0002	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0222	0.0060	0.0130	0.0001	0.0000	0.0000	0.0000	----	0.0012 A	10
11	----	----	----	0.0175	0.0066	0.0083	0.0001	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0153	0.0071	0.0073	0.0001	0.0000	0.0000	0.0000	0.0023 A	----	12
13	----	----	----	0.0124	0.0053	0.0108	0.0004	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0098	0.0034	0.0092	0.0011	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0082	0.0026	0.0072	0.0006	0.0000	0.0000	0.0003	----	----	15
16	----	----	----	0.0074	0.0021	0.0061	0.0006	0.0000	0.0000	0.0004	----	----	16
17	----	----	----	0.0066	0.0020	0.0045	0.0006	0.0000	0.0000	0.0253	----	----	17
18	----	----	----	0.0061	0.0016	0.0032	0.0003	0.0000	0.0000	0.0251	0.0015 A	----	18
19	----	----	----	0.0043	0.0016	0.0025	0.0001	0.0000	0.0000	0.0399	----	----	19
20	----	----	----	0.0028	0.0016	0.0019	0.0001	0.0000	0.0000	0.0385	----	----	20
21	----	----	----	0.0021	0.0022	0.0019	0.0001	0.0000	0.0000	0.0257	----	----	21
22	----	----	----	0.0019	0.0018	0.0034	0.0001	0.0000	0.0000	0.0174	----	----	22
23	----	----	----	0.0017	0.0014	0.0025	0.0000	0.0000	0.0000	0.0135	----	----	23
24	----	----	----	0.0018	0.0014	0.0019	0.0000	0.0000	0.0000	0.0101	----	----	24
25	----	----	----	0.0019	0.0012	0.0013	0.0000	0.0000	0.0000	0.0087	----	----	25
26	----	----	----	0.0019	0.0010	0.0032	0.0000	0.0000	0.0000	0.0079	0.0023 A	----	26
27	----	----	----	0.0049	0.0007	0.0055	0.0000	0.0000	0.0000	0.0072	----	----	27
28	----	----	----	0.0076	0.0005	0.0036	0.0000	0.0000	0.0000	0.0066	----	----	28
29	----	----	0.0001 A	0.0073	0.0005	0.0022	0.0000	0.0000	0.0000	0.0055	0.0056 A	----	29
30	----		0.0004 E	0.0064	0.0003	0.0016	0.0000	0.0000	0.0000	0.0041	----	----	30
31	----		0.0008 E		0.0003		0.0000	0.0000		0.0029 A		0.0000 A	31
TOTAL	----	----	----	0.4011	0.0869	0.1393	0.0115	0.0000	0.0000	0.2391	----	----	TOTAL
MEAN	----	----	----	0.0134	0.0028	0.0046	0.0004	0.0000	0.0000	0.0077	----	----	MEAN
MAX	----	----	----	0.0483	0.0071	0.0177	0.0014	0.0000	0.0000	0.0399	----	----	MAX
MIN	----	----	----	0.0011	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

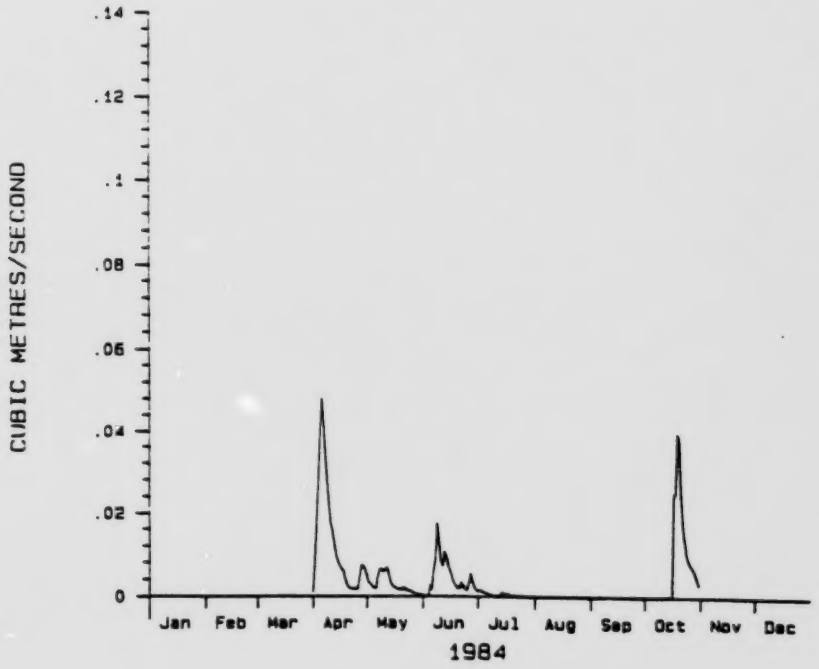
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	34655	7508	12036	994	0	0	20658	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	75851	CUBIC METRES
MEAN DISCHARGE,	0.0041	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0483	CUBIC METRES/SEC ON APR 06
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 03
MAX INSTANTANEOUS FLOW,	0.0693	CUBIC METRES/SEC ON OCT 19

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0060 E	0.0091	0.0036	0.0084	0.0000	0.0015	0.0035	0.0020	—	1
2	—	—	—	0.0085	0.0078	0.0024	0.0059	0.0000	0.0026	0.0032	0.0018	—	2
3	—	—	—	0.0221	0.0072	0.0021	0.0043	0.0000	0.0040	0.0032	0.0016	—	3
4	—	—	—	0.0150	0.0197	0.0017	0.0034	0.0001	0.0043	0.0027	0.0015	—	4
5	—	—	—	0.0067	0.0216	0.0014	0.0024	0.0001	0.0042	0.0029	0.0017	—	5
6	—	—	—	0.0066	0.0221	0.0014	0.0019	0.0001	0.0035	0.0028	0.0021	—	6
7	—	—	—	0.0054	0.0302	0.0013	0.0014	0.0000	0.0024	0.0024	—	—	7
8	—	—	—	0.0080	0.0178	0.0013	0.0010	0.0000	0.0019	0.0026	—	—	8
9	—	—	—	0.0070	0.0129	0.0010	0.0007	0.0000	0.0015	0.0042	—	0.0002 A	9
10	—	—	—	0.0077	0.0098	0.0008	0.0005	0.0000	0.0013	0.0046	0.0006 A	—	10
11	—	—	—	0.0152	0.0273	0.0006	0.0004	0.0000	0.0012	0.0069	—	—	11
12	—	—	—	0.0168	0.0330	0.0005	0.0003	0.0000	0.0009	0.0200	—	—	12
13	—	—	—	0.0176	0.0541	0.0007	0.0004	0.0021	0.0008	0.0261	—	—	13
14	—	—	—	0.0160	0.0222	0.0004	0.0004	0.0016	0.0008	0.0164	—	—	14
15	—	—	—	0.0182	0.0298	0.0007	0.0003	0.0009	0.0008	0.0113	—	—	15
16	—	—	—	0.0142	0.0512	0.0034	0.0001	0.0005	0.0010	0.0089	—	—	16
17	—	—	—	0.0082	0.0212	0.0050	0.0001	0.0222	0.0010	0.0076	—	—	17
18	—	—	—	0.0078	0.0132	0.0042	0.0008	0.0250	0.0008	0.0066	—	—	18
19	—	0.0000 A	0.0000 A	0.0090	0.0106	0.0029	0.0026	0.0150	0.1604 E	0.0055	—	—	19
20	—	—	0.0000 A	0.0106	0.0080	0.0032	0.0009	0.0095	0.0489	0.0047	—	—	20
21	0.0000 A	—	—	0.1826 E	0.0062	0.0035	0.0005	0.0067	0.0243	0.0043	—	—	21
22	—	—	—	0.0796	0.0050	0.0503	0.0003	0.0067	0.0155	0.0040	—	—	22
23	—	—	—	0.0641	0.0040	0.0231	0.0007	0.0089	0.0110	0.0036	—	—	23
24	—	—	—	0.0379	0.0033	0.0134	0.0010	0.0069	0.0098	0.0034	—	—	24
25	—	—	—	0.0336	0.0026	0.0104	0.0005	0.0049	0.0084	0.0032	—	—	25
26	—	—	—	0.0256	0.0023	0.0117	0.0003	0.0035	0.0067	0.0028	—	—	26
27	—	—	—	0.0209	0.0017	0.0132	0.0001	0.0030	0.0056	0.0025	—	—	27
28	—	—	—	0.0147	0.0014	0.0314	0.0001	0.0022	0.0049	0.0024	0.0003 A	—	28
29	—		—	0.0118	0.0028	0.0200	0.0001	0.0017	0.0043	0.0023	—	—	29
30	—		—	0.0110	0.0043	0.0127	0.0000	0.0013	0.0040	0.0021	—	—	30
31	—		—		0.0034		0.0000	0.0017		0.0021		0.0000 E	31
TOTAL	—	—	—	0.7094	0.4608	0.2283	0.0398	0.1246	0.3383	0.1798	—	—	TOTAL
MEAN	—	—	—	0.0236	0.0149	0.0076	0.0013	0.0040	0.0113	0.0058	—	—	MEAN
MAX	—	—	—	0.1826	0.0541	0.0503	0.0084	0.0250	0.1604	0.0261	—	—	MAX
MIN	—	—	—	0.0060	0.0014	0.0004	0.0000	0.0000	0.0008	0.0021	—	—	MIN

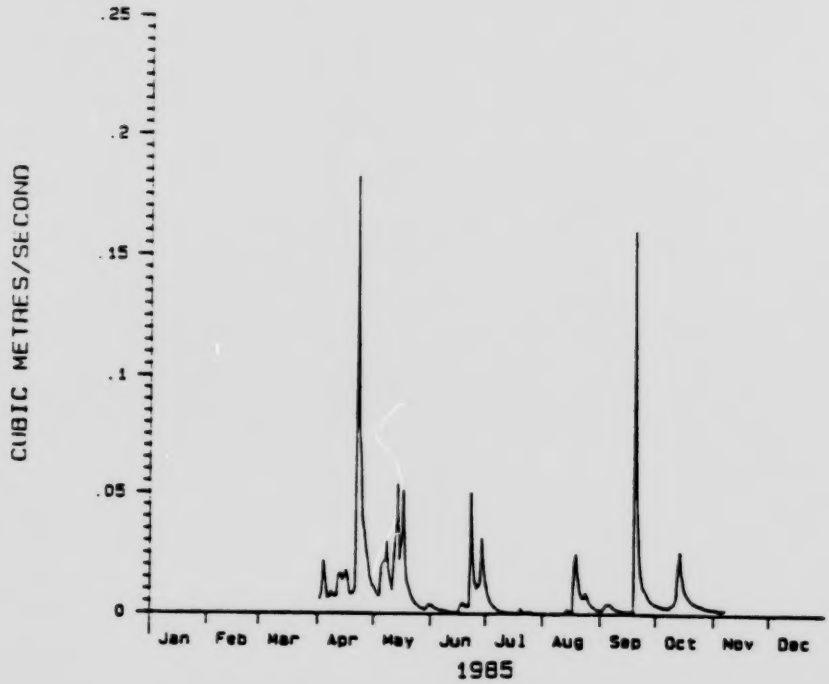
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	61292	39813	19725	3439	10765	29229	15535	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	179798	CUBIC METRES	
MEAN DISCHARGE,	0.0098	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.1826	CUBIC METRES/SEC	ON APR 21
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUL 30
MAX INSTANTANEOUS FLOW,	M	CUBIC METRES/SEC	ON APR 21

A MANUAL OBSERVATION, NOW RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO LAKE 259
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0649	0.0449	0.0000	0.0000	0.0000	0.0000	0.0014	0.0007	—	1
2	—	—	—	0.0604	0.0252	0.0000	0.0000	0.0000	0.0005	0.0026	—	—	2
3	—	—	—	0.0436	0.0152	0.0000	0.0000	0.0000	0.0040	0.0030	—	—	3
4	—	—	—	0.0297	0.0111	0.0000	0.0000	0.0000 A	0.0019	0.0031	0.0003 A	0.0003 A	4
5	—	—	0.0000 A	0.0255	0.0279	0.0000	0.0025	0.0000 E	0.0009	0.0028	—	—	5
6	—	—	—	0.0209	0.0200	0.0000	0.0007	0.0000 E	0.0006	0.0025	—	—	6
7	—	—	—	0.0188	0.0173	0.0000	0.0001	0.0000 E	0.0005	0.0022	—	—	7
8	—	—	—	0.0147	0.0094	0.0000	0.0000	0.0000 E	0.0004	0.0021	—	—	8
9	—	—	—	0.0113	0.0078	0.0000	0.0000	0.0000 E	0.0004	0.0026	0.0010 A	0.0004 A	9
10	—	—	—	0.0087	0.0068	0.0000	0.0000	0.0000 E	0.0003	0.0025	—	—	10
11	—	—	—	0.0075	0.0058	0.0000	0.0001	0.0000 E	0.0007	0.0026	—	—	11
12	—	—	—	0.0070	0.0052	0.0000	0.0007	0.0000 E	0.0005	0.0023	0.0006 A	—	12
13	—	—	—	0.0064	0.0043	0.0000	0.0002	0.0000 E	0.0005	0.0021	—	—	13
14	—	—	—	0.0061	0.0036	0.0000	0.0000	0.0000 A	0.0004	0.0019	—	—	14
15	—	—	—	0.0058	0.0030	0.0000	0.0000	0.0000	0.0003	0.0017	—	0.0004 A	15
16	—	—	—	0.0056	0.0024	0.0000	0.0000	0.0000	0.0002	0.0016	—	—	16
17	—	0.0000 A	—	0.0057	0.0021	0.0000	0.0000	0.0000	0.0009	0.0015	—	—	17
18	—	—	—	0.0062	0.0018	0.0000	0.0000	0.0000	0.0011	0.0014	—	—	18
19	—	—	—	0.0177	0.0014	0.0000	0.0000	0.0000	0.0006	0.0014	—	—	19
20	0.0000 A	—	—	0.0272	0.0010	0.0000	0.0000	0.0000	0.0004	0.0013	—	—	20
21	—	—	—	0.0219	0.0008	0.0000	0.0000	0.0000	0.0005	0.0012	—	—	21
22	—	—	—	0.0145	0.0007	0.0000	0.0000	0.0000	0.0014	0.0011	—	—	22
23	—	—	—	0.0117	0.0005	0.0000	0.0000	0.0000	0.0011	0.0011	—	—	23
24	—	—	—	0.0100	0.0005	0.0000	0.0000	0.0000	0.0007	0.0010	—	—	24
25	—	—	—	0.0091	0.0004	0.0000	0.0000	0.0000	0.0011	0.0009	—	—	25
26	—	—	0.0000 A	0.0291	0.0002	0.0000	0.0000	0.0000	0.0017	0.0010	0.0005 A	—	26
27	—	—	0.0000	0.0726	0.0001	0.0001	0.0000	0.0000	0.0016	0.0009	—	—	27
28	—	—	0.0001	0.1052	0.0000	0.0000	0.0000	0.0000	0.0016	0.0008	—	—	28
29	—		0.0009	0.0939	0.0000	0.0000	0.0000	0.0000	0.0015	0.0007	—	—	29
30	—		0.0091	0.0291	0.0000	0.0000	0.0000	0.0000	0.0016	0.0007	—	—	30
31	—		0.0593		0.0000		0.0000	0.0000		0.0009		0.0002 E	31
TOTAL	—	—	—	0.7385	0.2154	0.0004	0.0079	0.0000	0.0271	0.0549	—	—	TOTAL
MEAN	—	—	—	0.0246	0.0069	.0000	0.0001	0.0000	0.0009	0.0018	—	—	MEAN
MAX	—	—	—	0.1052	0.0449	0.0003	0.0025	0.0000	0.0040	0.0032	—	—	MAX
MIN	—	—	—	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	—	—	MIN

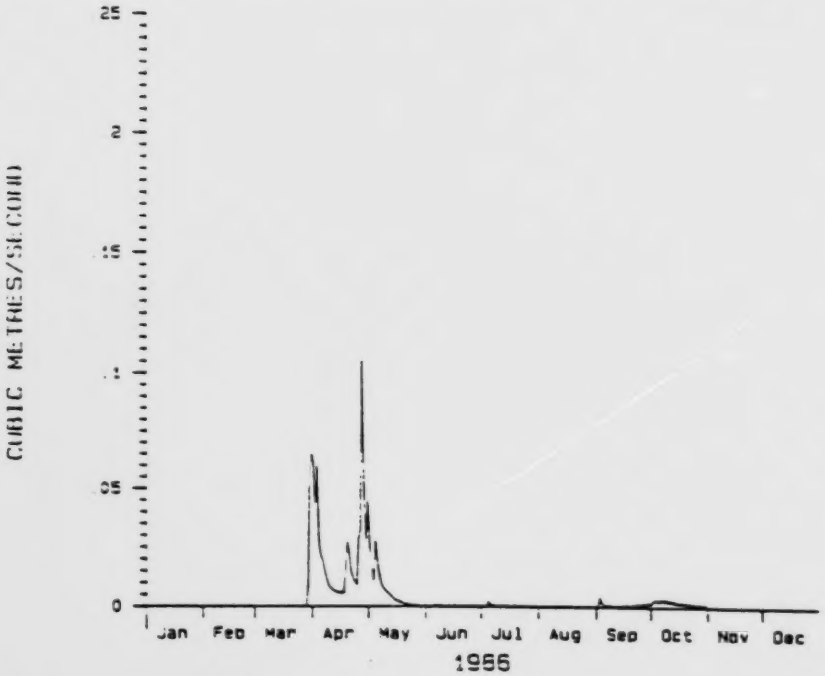
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	63806	18611	35	527	0	2341	4743	—	—

SUMMARY FOR 305 MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	89877	CUBIC METRES
MEAN DISCHARGE,	0.0049	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1052	CUBIC METRES/SEC ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON MAY 28
MAX INSTANTANEOUS FLOW,	0.1078	CUBIC METRES/SEC ON APR 29

A MANUAL OBSERVATION, NOT RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



NORTHWEST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0083	0.0013	0.0050	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0000 E	0.0062	0.0012	0.0053	0.0002	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	0.0000 E	0.0051	0.0010	0.0038	0.0001	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0000 A	0.0062	0.0009	0.0038	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0111	0.0009	0.0027	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0185	0.0006	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0207	0.0004	0.0021	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0195	0.0003	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0150	0.0002	0.0010	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0000 E	0.0125	0.0003	0.0011	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0108	0.0003	0.0201	0.0000	0.0007	0.0000	0.0000	0.0000 A	----	11
12	----	----	0.0000 E	0.0088	0.0003 A	0.0142	0.0000	0.0012	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0077	0.0014 A	0.0077	0.0000	0.0002	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0060	0.0015 A	0.0043	0.0000	0.0001	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0056	0.0009	0.0025	0.0000	0.0002	0.0000	0.0000	----	----	15
16	----	0.0000 A	0.0000 E	0.0054	0.0010	0.0017	0.0000	0.0007	0.0000	0.0000	0.0000 A	----	16
17	----	----	0.0000 A	0.0051	0.0010	0.0011	0.0000	0.0003	0.0000	0.0000	----	0.0000 A	17
18	----	----	0.0000 E	0.0047	0.0006	0.0007	0.0000	0.0002	0.0000	0.0000	----	----	18
19	0.0000 A	----	0.0000 E	0.0045	0.0005	0.0004	0.0001	0.0002	0.0000	0.0000	----	----	19
20	----	----	0.0021 E	0.0043	0.0005	0.0003	0.0001	0.0001	0.0000	0.0000	----	----	20
21	----	----	0.0094 E	0.0037	0.0162	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	0.0106 E	0.0032	0.0288	0.0003	0.0001	0.0000	0.0000	0.0000	----	----	22
23	----	----	0.0431 E	0.0028	0.0168	0.0001	0.0001	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0856	0.0023	0.0106	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	24
25	----	----	0.0664	0.0021	0.0073	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0509	0.0020	0.0139	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0410	0.0019	0.0168	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0391	0.0016	0.0140	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0368	0.0015	0.0086	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0289	0.0014	0.0058	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0135		0.0040		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.4294	0.2085	0.1580	0.0833	0.0007	0.0039	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0139	0.0070	0.0051	0.0028	.0000	0.0001	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0886	0.0207	0.0288	0.0201	0.0002	0.0012	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0000	0.0014	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

MONTHLY DISCHARGES IN CUBIC METRES

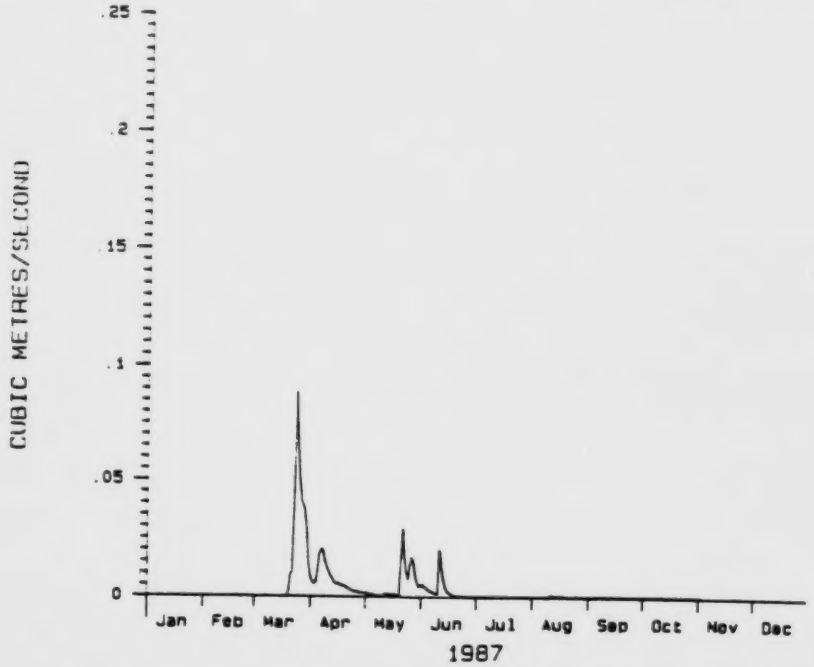
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	37100	18014	13651	7197	60	337	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	76360	CUBIC METRES
MEAN DISCHARGE,	0.0036	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0886	CUBIC METRES/SEC ON MAR 24
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 29
MAX INSTANTANEOUS FLOW,	0.1182	CUBIC METRES/SEC ON MAR 24

SMALL LEAKAGE FACTOR WAS INCORPORATED
FROM MARCH 24 UNTIL MAY 18

A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
-- NO DATA OR NOT APPLICABLE



EAST INFLOW TO 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0030 B	0.0188	0.0301	0.0000	0.0007	0.0066	0.0246	----	----	1
2	----	----	----	0.0070 B	0.0172	0.0236	0.0091	0.0028	0.0050	0.0436	0.0084 A	----	2
3	----	----	----	0.0120 B	0.0167	0.0159	0.2310	0.0101	0.0027	0.0470	----	----	3
4	----	----	----	0.0150 B	0.0199	0.0098	0.0777	0.0052	0.0015	0.0338	----	----	4
5	----	----	----	0.0150 B	0.0302	0.0065	0.0577	0.0026	0.0007	0.0265	----	----	5
6	----	----	----	0.0140 B	0.0232	0.0069	0.0594	0.0013	0.0006	0.0248	----	----	6
7	----	----	----	0.0140 B	0.0170	0.0166	0.0371	0.0011	0.0006	0.1660	----	----	7
8	----	----	----	0.0130 B	0.0154	0.0127	0.0193	0.0016	0.0007	0.0667	0.0057 A	----	8
9	----	----	----	0.0130 B	0.0123	0.0222	0.0130	0.0015	0.0006	0.0451	----	----	9
10	----	0.0000 A	----	0.0120 B	0.0144	0.0471	0.0097	0.0007	0.0007	0.0824	----	----	10
11	----	----	0.0000 A	0.0120 B	0.0156	0.0250	0.0063	0.0004	0.0008	0.0816	----	----	11
12	----	----	----	0.0300 B	0.0138	0.0138	0.0048	0.0001	0.0014	0.0530	----	----	12
13	0.0000 A	----	----	0.0830 B	0.0133	0.0106	0.0048	0.0012	0.0035	0.0390	----	----	13
14	----	----	----	0.2600 B	0.0132	0.0114	0.0035	0.0007	0.0024	0.0240	----	0.0000 A	14
15	----	----	----	0.4510 B	0.0160	0.0090	0.0040	0.0004	0.0015	0.0215	----	----	15
16	----	----	----	0.5310 B	0.0194	0.0068	0.0039	0.0000	0.0012	0.0184	----	----	16
17	----	----	----	0.2450 B	0.0293	0.0063	0.0306	0.0000	0.0007	0.0156	----	----	17
18	----	----	----	0.1620 B	0.0679	0.0051	0.0174	0.0001	0.0008	0.0131	----	----	18
19	----	----	----	0.1070	0.0594	0.0051	0.0089	0.0004	0.0008	0.0115	----	----	19
20	----	----	----	0.0733	0.0365	0.0044	0.0047	0.0000	0.0006	0.0107	----	----	20
21	----	----	----	0.0605	0.0252	0.0037	0.0025	0.0006	0.0006	0.0102	----	----	21
22	----	----	----	0.0811	0.0179	0.0023	0.0015	0.0017	0.0006	0.0085	----	----	22
23	----	----	----	0.0787	0.0145	0.0019	0.0012	0.0009	0.0468	0.0083	0.0174 A	----	23
24	----	----	----	0.0617	0.0108	0.0022	0.0185	0.0004	0.0478	0.0074	----	----	24
25	----	----	----	0.0484	0.0085	0.0015	0.0093	0.0007	0.0226	0.0070	----	----	25
26	----	----	----	0.0319	0.0078	0.0008	0.0044	0.0009	0.0149	0.0067	----	----	26
27	----	----	0.0000 E	0.0229	0.0064	0.0004	0.0024	0.0004	0.0142	0.0078	----	----	27
28	----	----	----	0.0197	0.0057	0.0002	0.0014	0.0002	0.1320	0.0073	----	----	28
29	----		----	0.0195	0.0052	0.0001	0.0013	0.0010	0.0652	0.0076	----	----	29
30	----		----	0.0188	0.0053	0.0000	0.0012	0.0010	0.0377	0.0083	----	----	30
31	----		----		0.0193		0.0008	0.0012		0.0077		0.0000 E	31
TOTAL	----	----	----	2.5155	0.5961	0.3020	0.6474	0.0399	0.4158	0.9357	----	----	TOTAL
MEAN	----	----	----	0.0839	0.0192	0.0101	0.0209	0.0013	0.0139	0.0302	----	----	MEAN
MAX	----	----	----	0.5310	0.0679	0.0471	0.2310	0.0101	0.1320	0.1660	----	----	MAX
MIN	----	----	----	0.0030	0.0052	0.0000	0.0000	0.0000	0.0006	0.0067	----	----	MIN

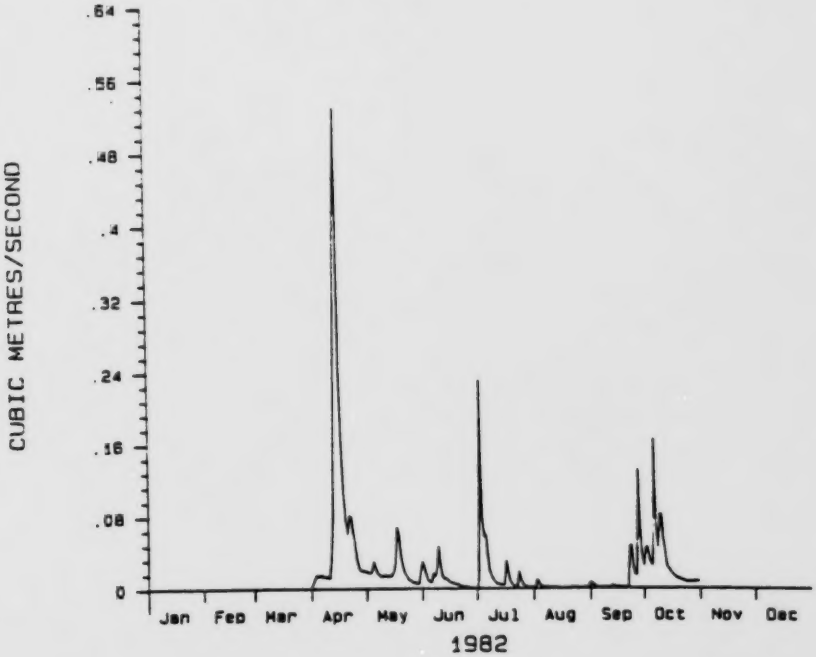
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	217339	51503	26093	55935	3447	35925	80844	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	471087	CUBIC METRES		
MEAN DISCHARGE,	0.0256	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	C 5310	CUBIC METRES/SEC	ON APR 16	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUN 30	
MAX INSTANTANEOUS FLOW,	M, B	CUBIC METRES/SEC	ON APR 16	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



EAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0019	0.0169	0.0057	0.0058	0.0000	0.0000	0.0055	0.0015	----	1
2	----	----	----	0.0082	0.0160	0.0055	0.0049	0.0000	0.0000	0.0051	----	----	2
3	----	----	----	0.0123	0.0176	0.0068	0.0150	0.0000	0.0000	0.0032	----	----	3
4	----	----	0.0000 E	0.0164	0.0168	0.0144	0.0410	0.0000	0.0000	0.0022	----	----	4
5	----	----	----	0.0260	0.0153	0.0097	0.0269	0.0000	0.0000	0.0047	----	----	5
6	----	----	----	0.0312	0.0141	0.0075	0.0135	0.0000	0.0000	0.0048	----	----	6
7	----	----	----	0.0349	0.0126	0.0054	0.0074	0.0000	0.0000	0.0035	----	----	7
8	----	----	----	0.0786	0.0110	0.0045	0.0042	0.0000	0.0000	0.0025	----	----	8
9	----	----	----	0.1250	0.0100	0.0041	0.0024	0.0000	0.0000	0.0018	----	----	9
10	----	----	----	0.1330	0.0116	0.0033	0.0011	0.0000	0.0000	0.0019	----	----	10
11	----	----	----	0.1480	0.0161	0.0027	0.0005	0.0000	0.0000	0.0033	----	----	11
12	----	----	----	0.1480	0.0268	0.0021	0.0003	0.0000	0.0000	0.0031	----	----	12
13	0.0000 A	----	----	0.0878	0.0457	0.0022	0.0000	0.0000	0.0000	0.0024	----	0.0006 A	13
14	----	----	----	0.0414	0.0269	0.1040	0.0000	0.0000	0.0000	0.0022	0.0005 A	----	14
15	----	----	0.0000 E	0.0302	0.0179	0.0706	0.0000	0.0000	0.0000	0.0019	----	----	15
16	----	----	----	0.0259	0.0135	0.0326	0.0000	0.0000	0.0000	0.0024	----	----	16
17	----	----	0.0011 A	0.0291	0.0118	0.0190	0.0016	0.0000	0.0000	0.0025	----	----	17
18	----	----	----	0.0438	0.0164	0.0118	0.0007	0.0000	0.0000	0.0018	----	----	18
19	----	----	----	0.0750	0.0124	0.0077	0.0014	0.0000	0.0003	0.0019	----	----	19
20	----	----	----	0.0585	0.0107	0.0051	0.0006	0.0000	0.0000	0.0018	----	----	20
21	----	----	----	0.0672	0.0103	0.0041	0.0000	0.0000	0.0003	0.0017	----	----	21
22	----	----	----	0.0625	0.0229	0.0156	0.0000	0.0000	0.0003	0.0017	0.0017 A	----	22
23	----	----	----	0.0428	0.0190	0.0117	0.0000	0.0000	0.0002	0.0014	----	----	23
24	----	----	----	0.0367	0.0156	0.0069	0.0000	0.0000	0.0000	0.0021	----	----	24
25	----	----	----	0.0333	0.0117	0.0041	0.0000	0.0000	0.0000	0.0026	----	----	25
26	----	----	----	0.0326	0.0088	0.0024	0.0000	0.0000	0.0000	0.0023	----	----	26
27	----	----	0.0015 A	0.0295	0.0076	0.0015	0.0000	0.0000	0.0000	0.0018	----	----	27
28	----	----	----	0.0238	0.0091	0.0007	0.0000	0.0000	0.0000	0.0017	----	----	28
29	----		----	0.0245	0.0105	0.0006	0.0000	0.0000	0.0000	0.0014	----	----	29
30	----		----	0.0202	0.0089	0.0048	0.0000	0.0000	0.0000	0.0016	----	----	30
31	----		0.0009		0.0072		0.0000	0.0000		0.0013		0.0000 E	31
TOTAL	----	----	----	1.5073	0.4707	0.3771	0.1273	0.0000	0.0011	0.0781	----	----	TOTAL
MEAN	----	----	----	0.0502	0.0152	0.0126	0.0041	0.0000	0.0000	0.0025	----	----	MEAN
MAX	----	----	----	0.1480	0.0457	0.1040	0.0410	0.0000	0.0003	0.0055	----	----	MAX
MIN	----	----	----	0.0019	0.0072	0.0006	0.0000	0.0000	0.0000	0.0013	----	----	MIN

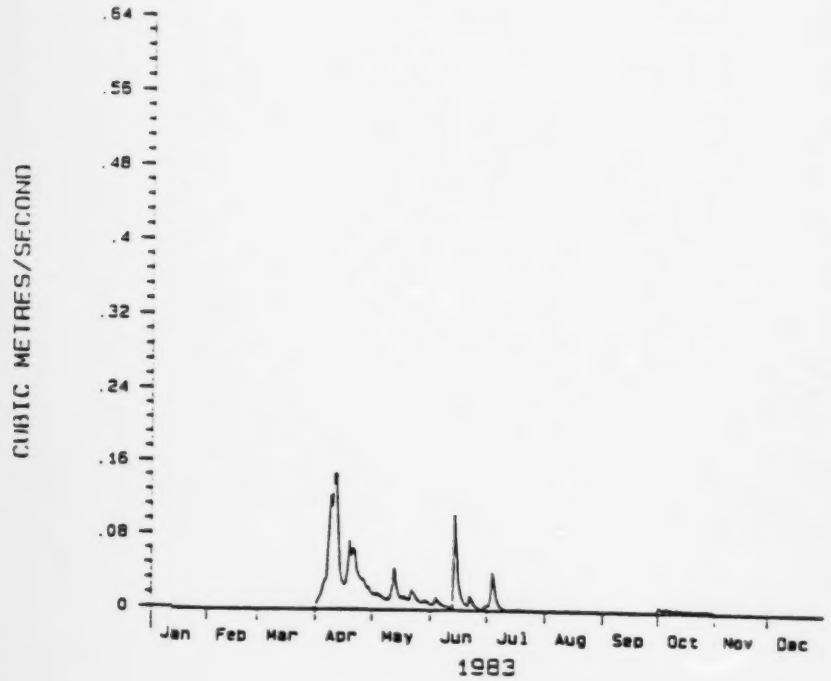
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	130231	40668	32581	10999	0	95	6748	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	221322	CUBIC METRES		
MEAN DISCHARGE.	0.0121	CUBIC METRES/SEC		
MAX DAILY DISCHARGE.	0.1480	CUBIC METRES/SEC ON	APR	11
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON	JUL	13
MAX INSTANTANEOUS FLOW.	0.2510	CUBIC METRES/SEC ON	APR	11

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



EAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	----	0.0040 E	0.0113	0.0012	0.0012	0.0000	0.0000	0.0000	----	----	1
2	----	----	----	0.0150 E	0.0097	0.0008	0.0020	0.0000	0.0000	0.0000	----	----	2
3	----	----	----	0.0470 E	0.0091	0.0005	0.0037	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.1190 A	0.0077	0.0005	0.0016	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.1670	0.0076	0.0170	0.0013	0.0000	0.0000	0.0000	0.0072 A	----	5
6	----	----	0.0000 A	0.1720	0.0072	0.0123	0.0009	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.1360	0.0191	0.0281	0.0003	0.0000	0.0000	0.0000	----	----	7
8	----	0.0000 A	----	0.1020	0.0227	0.0292	0.0001	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0797	0.0198	0.0425	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0603	0.0159	0.0310	0.0000	0.0000	0.0000	0.0000	----	0.0029 A	10
11	----	----	----	0.0513	0.0209	0.0153	0.0000	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0442	0.0218	0.0122	0.0000	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0353	0.0148	0.0315	0.0000	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0259	0.0106	0.0210	0.0032	0.0000	0.0000	0.0020	----	----	14
15	----	----	----	0.0218	0.0079	0.0136	0.0016	0.0000	0.0000	0.0080	----	----	15
16	----	----	----	0.0180	0.0071	0.0120	0.0017	0.0000	0.0000	0.2060	----	----	16
17	----	----	----	0.0157	0.0068	0.0094	0.0017	0.0000	0.0000	0.1310	----	----	17
18	----	----	0.0000 E	0.0132	0.0057	0.0072	0.0003	0.0000	0.0000	0.0590	----	----	18
19	----	----	----	0.0113	0.0056	0.0048	0.0000	0.0000	0.0000	0.1330	----	----	19
20	----	----	----	0.0098	0.0059	0.0027	0.0000	0.0000	0.0000	0.1240	----	----	20
21	----	----	----	0.0094	0.0097	0.0039	0.0000	0.0000	0.0000	0.0768	----	----	21
22	----	----	----	0.0079	0.0082	0.0164	0.0000	0.0000	0.0000	0.0517	----	----	22
23	----	----	----	0.0076	0.0065	0.0097	0.0000	0.0000	0.0000	0.0381	----	----	23
24	----	----	----	0.0070	0.0057	0.0060	0.0000	0.0000	0.0000	0.0275	----	----	24
25	----	----	----	0.0083	0.0048	0.0031	0.0000	0.0000	0.0000	0.0223	----	----	25
26	----	----	----	0.0089	0.0043	0.0088	0.0000	0.0000	0.0000	0.0211	----	----	26
27	----	----	----	0.0235	0.0038	0.0237	0.0000	0.0000	0.0000	0.0191	----	----	27
28	----	----	0.0023 A	0.0366	0.0031	0.0084	0.0000	0.0000	0.0000	0.0182	0.0072 E	----	28
29	----	----	----	0.0234	0.0025	0.0044	0.0000	0.0000	0.0000	0.0137	0.0174 A	----	29
30	----		----	0.0164	0.0018	0.0021	0.0000	0.0000	0.0000	0.0111	----	----	30
31	----		----		0.0016		0.0000	0.0000		0.0107 A		0.0000 E	31
TOTAL	----	----	----	1.2975	0.2882	0.3793	0.0196	0.0000	0.0000	0.7733	----	----	TOTAL
MEAN	----	----	----	0.0433	0.0093	0.0126	0.0006	0.0000	0.0000	0.0249	----	----	MEAN
MAX	----	----	----	0.1720	0.0227	0.0425	0.0037	0.0000	0.0000	0.1330	----	----	MAX
MIN	----	----	----	0.0040	0.0016	0.0005	0.0000	0.0000	0.0000	0.0000	----	----	MIN

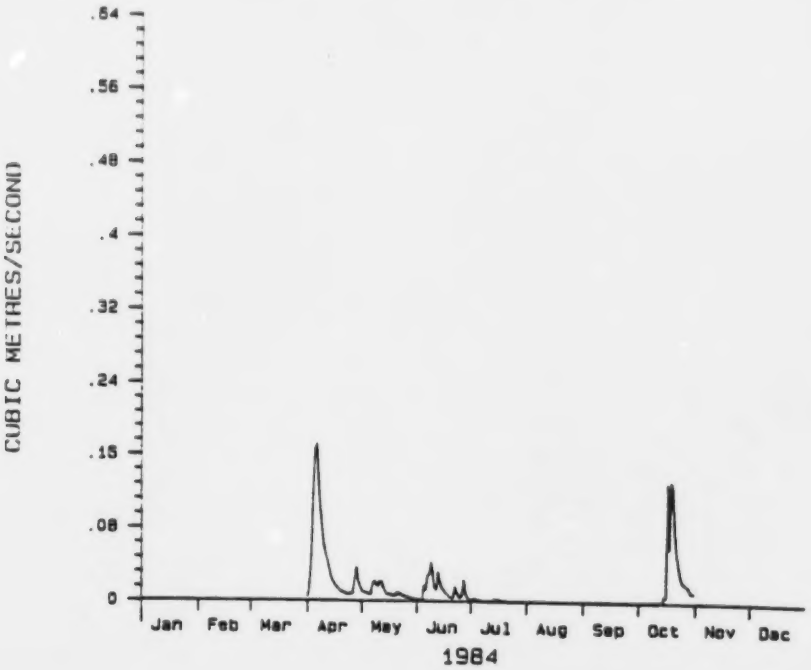
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	112104	24900	32772	1693	0	0	66813	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	238283	CUBIC METRES
MEAN DISCHARGE.	0.0130	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.1720	CUBIC METRES/SEC ON APR 06
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON JUL 09
MAX INSTANTANEOUS FLOW.	0.2300	CUBIC METRES/SEC ON APR 05

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
N MISSING RECORD
--- NO DATA OR NOT APPLICABLE



EAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	—	—	0.0127 A	0.0162	0.0190	0.0216	0.0000	0.0052	0.0107	0.0058	—	1
2	—	—	—	0.0522	0.0127	0.0122	0.0133	0.0000	0.0068	0.0097	0.0058	—	2
3	—	—	—	0.1112	0.0107	0.0095	0.0088	0.0000	0.0230	0.0112	0.0054	—	3
4	—	—	—	0.1337	0.0322	0.0068	0.0068	0.0000	0.0181	0.0093	0.0051	—	4
5	—	—	—	0.0181	0.0370	0.0064	0.0058	0.0000	0.0138	0.0102	0.0054	—	5
6	—	—	—	0.0201	0.0508	0.0072	0.0042	0.0000	0.0093	0.0112	0.0050	—	6
7	—	—	—	0.0238	0.0752	0.0078	0.0032	0.0000	0.0058	0.0093	—	—	7
8	—	—	—	0.0216	0.0297	0.0061	0.0017	0.0000	0.0076	0.0144	—	—	8
9	—	—	—	0.0201	0.0208	0.0058	0.0010	0.0000	0.0027	0.0254	—	0.0021 A	9
10	—	—	—	0.0378	0.0133	0.0051	0.0004	0.0000	0.0021	0.0230	—	—	10
11	—	—	—	0.0781	0.0819	0.0074	0.0022	0.0000	0.0019	0.0704	—	—	11
12	—	—	—	0.0612	0.4673	0.0074	0.0000	0.0000	0.0015	0.2877	—	—	12
13	—	—	—	0.0731	0.4000	0.0042	0.0000	0.0144	0.0014	0.0990	—	—	13
14	—	—	—	0.3509	0.0529	0.0029	0.0000 E	0.0456	0.0014	0.0524	—	—	14
15	—	—	—	0.0540	0.1358	0.0045	0.0000 E	0.0088	0.0017	0.0722	—	—	15
16	—	—	—	0.0450	0.2497	0.0181	0.0000	0.0045	0.0019	0.0262	—	—	16
17	—	—	—	0.0346	0.0540	0.0262	0.0000	0.2136	0.0023	0.0230	—	—	17
18	—	—	—	0.0246	0.0278	0.0194	0.0002	0.0877	0.0019	0.0194	—	—	18
19	—	0.0000 A	0.0000 A	0.0270	0.0238	0.0101	0.0084	0.0422	0.4829 E	0.0174	—	—	19
20	—	—	0.0000 A	0.0304	0.0181	0.0064	0.0021	0.0215	0.2405	0.0138	—	—	20
21	0.0000 A	—	—	0.5498 E	0.0190	0.0068	0.0008	0.0133	0.0854	0.0127	—	—	21
22	—	—	—	0.2584 E	0.0112	0.2251	0.0003	0.0133	0.0479	0.0122	—	—	22
23	—	—	0.0001 A	0.3542	0.0102	0.0640	0.0012	0.0201	0.0317	0.0122	—	—	23
24	—	—	0.0011 A	0.1355	0.0076	0.0262	0.0025	0.0133	0.0295	0.0107	—	—	24
25	—	—	0.0034 A	0.1299	0.0076	0.0216	0.0007	0.0080	0.0262	0.0093	—	—	25
26	—	—	—	0.0772	0.0068	0.0122	0.0001	0.0061	0.0201	0.0084	—	—	26
27	—	—	—	0.0422	0.0051	0.0396	0.0000	0.0042	0.0168	0.0080	—	—	27
28	—	—	—	0.0254	0.0048	0.1121	0.0000	0.0029	0.0150	0.0076	0.0029 A	—	28
29	—	—	0.0168 A	0.0238	0.0102	0.0599	0.0000	0.0021	0.0138	0.0072	—	—	29
30	—	—	0.0133 A	0.0216	0.0298	0.0122	0.0000	0.0016	0.0122	0.0061	—	—	30
31	—	—	0.0097 A		0.0150		0.0000	0.0029		0.0061		0.0016 E	31
TOTAL	—	—	—	2.7088	1.9250	0.8196	0.0811	0.4955	1.1221	0.6364	—	—	TOTAL
MEAN	—	—	—	0.0903	0.0621	0.0273	0.0026	0.0160	0.0374	0.0205	—	—	MEAN
MAX	—	—	—	0.5498	0.4673	0.2251	0.0216	0.2136	0.4829	0.0990	—	—	MAX
MIN	—	—	—	0.0127	0.0048	0.0029	0.0000	0.0000	0.0014	0.0061	—	—	MIN

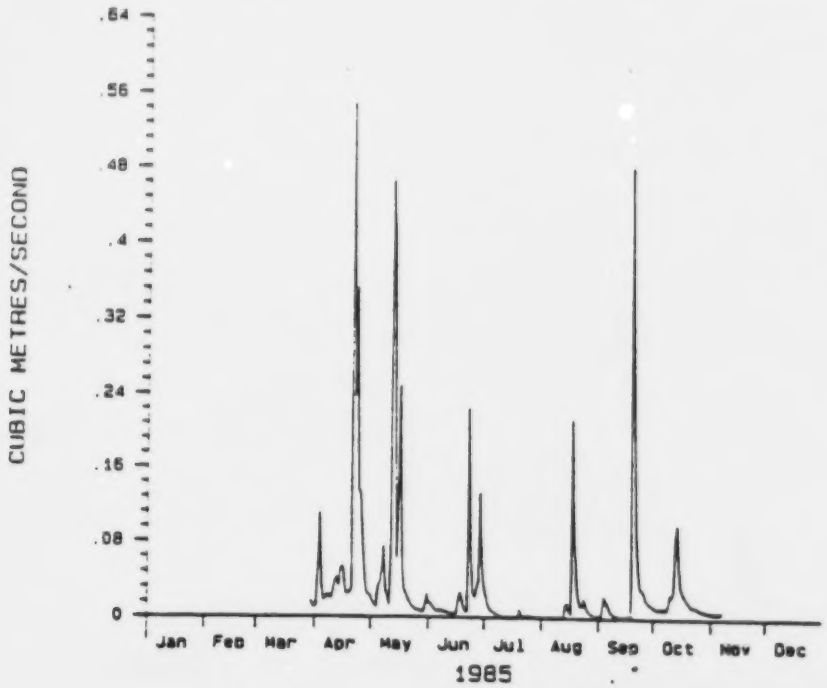
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	199480	166320	70813	7197	42811	96949	54985	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	638996	CUBIC METRES	
MEAN DISCHARGE.	0.0747	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.5498	CUBIC METRES/SEC	ON APR 21
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC	ON JUL 12
MAX INSTANTANEOUS FLOW.	M	CUBIC METRES/SEC	ON

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



EAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0016 E	—	—	0.1436 E	0.1463	0.0005	0.0000	0.0000	0.0000	0.0043	0.0021	—	1
2	—	—	—	0.0497 E	0.0594	0.0004	0.0000	0.0000	0.0000	0.0093	0.0017	—	2
3	—	—	—	0.0854	0.0297	0.0003	0.0000	0.0000	0.0248	0.0134	0.0016	—	3
4	—	—	—	0.0999	0.0204	0.0000	0.0000	0.0000	0.0149	0.0089	0.0017 A	—	4
5	—	—	0.0011 A	0.0725	0.0167	0.0000	0.0119	0.0000	0.0071	0.0073	—	—	5
6	—	—	—	0.0619	0.0575	0.0000	0.0078	0.0000	0.0057	0.0049	—	—	6
7	—	—	—	0.0832	0.0340	0.0000	0.0002	0.0000	0.0019	0.0093	—	—	7
8	—	—	—	0.0458	0.0209	0.0000	0.0004	0.0000	0.0009	0.0088	—	—	8
9	—	—	—	0.0195	0.0174	0.0000	0.0000	0.0000	0.0077	0.0062	—	0.0019 A	9
10	—	—	—	0.0239	0.0154	0.0000	0.0000	0.0000	0.0001	0.0054	—	—	10
11	—	—	—	0.0171	0.0146	0.0000	0.0007	0.0000	0.0000	0.0069	—	—	11
12	—	—	—	0.0131	0.0134	0.0000	0.0030	0.0000	0.0002	0.0062	—	—	12
13	—	—	—	0.0113	0.0119	0.0000	0.0024	0.0000	0.0006	0.0048	—	—	13
14	—	—	—	0.0115	0.0100	0.0000	0.0019	0.0000	0.0003	0.0046	—	—	14
15	—	—	—	0.0113	0.0086	0.0000	0.0002	0.0000	0.0002	0.0040	—	—	15
16	—	—	—	0.0107	0.0080	0.0000	0.0000	0.0000	0.0001	0.0035	—	—	16
17	—	0.0000 A	—	0.0101	0.0077	0.0000	0.0000	0.0000	0.0025	0.0034	—	—	17
18	—	—	—	0.0106	0.0073	0.0000	0.0000	0.0000	0.0043	0.0031	—	—	18
19	—	—	—	0.0428	0.0072	0.0000	0.0000	0.0000	0.0028	0.0029	—	—	19
20	—	—	—	0.0598	0.0067	0.0003	0.0000	0.0000	0.0019	0.0027	—	—	20
21	0.0011 A	—	—	0.0768	0.0054	0.0025	0.0000	0.0000	0.0016	0.0026	—	—	21
22	—	—	—	0.0200	0.0040	0.0006	0.0000	0.0000	0.0061	0.0024	—	—	22
23	—	—	—	0.0162	0.0034	0.0000	0.0000	0.0000	0.0063	0.0022	—	—	23
24	—	—	—	0.0142	0.0028	0.0000	0.0000	0.0000	0.0044	0.0021	—	—	24
25	—	—	—	0.0119	0.0025	0.0012	0.0000	0.0000	0.0045	0.0022	—	—	25
26	—	—	0.0021 A	0.0754	0.0017	0.0049	0.0000	0.0000	0.0062	0.0021	0.0042 A	—	26
27	—	—	0.0021 A	0.0797	0.0010	0.0072	0.0000	0.0000	0.0089	0.0019	—	—	27
28	—	—	0.0153 E	0.0587	0.0005	0.0005	0.0000	0.0000	0.0085	0.0020	—	—	28
29	—		0.0814 E	0.1910	0.0002	0.0000	0.0000	0.0000	0.0066	0.0019	—	—	29
30	—		0.0548 E	0.0669	0.0000	0.0000	0.0000	0.0000	0.0054	0.0017	—	—	30
31	—		0.2442 E		0.0000		0.0000	0.0000		0.0024		0.0010 E	31
TOTAL	—	—	—	1.3447	0.6085	0.0145	0.0295	0.0000	0.1251	0.1444	—	—	TOTAL
MEAN	—	—	—	0.0648	0.0196	0.0005	0.0010	0.0000	0.0042	0.0047	—	—	MEAN
MAX	—	—	—	0.4787	0.1467	0.0049	0.0119	0.0000	0.0248	0.0134	—	—	MAX
MIN	—	—	—	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	—	—	MIN

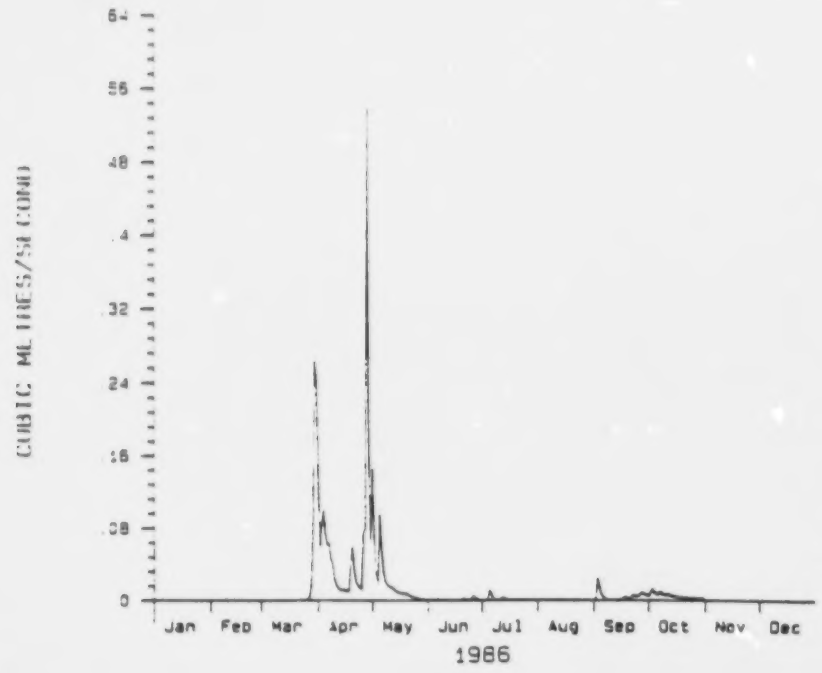
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	168022	52574	1253	2549	0	10809	12476	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	247683	CUBIC METRES	
MEAN DISCHARGE,	0.0196	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.5587	CUBIC METRES/SEC	ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON MAY 30
MAX INSTANTANEOUS FLOW,	0.7793	CUBIC METRES/SEC	ON APR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



EAST INFLOW TO LAKE 239
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0010 E	----	0.0014 E	0.0133	0.0031	0.0061	0.0000	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0014 E	0.0126	0.0030	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	0.0014 E	0.0141	0.0028	0.0045	0.0000	0.0000	0.0000	0.0000	0.0000	----	3
4	----	----	0.0014 A	0.0182	0.0023	0.0049	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0014 E	0.0331	0.0019	0.0035	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0014 E	0.0465	0.0015	0.0029	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0014 E	0.0506	0.0014	0.0028	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0014 E	0.0490	0.0012	0.0015	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0014 E	0.0402	0.0008	0.0009	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0014 E	0.0304	0.0007	0.0011	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0014 E	0.0226	0.0005	0.0865	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	11
12	----	----	0.0014 E	0.0176	0.0004	0.0343	0.0000	0.0022	0.0000	0.0000	----	----	12
13	----	----	0.0014 E	0.0165	0.0016	0.0138	0.0000	0.0003	0.0000	0.0000	----	----	13
14	----	----	0.0014 E	0.0148	0.0032	0.0052	0.0000	0.0000	0.0000	0.0000	----	----	14
15	----	----	0.0014 E	0.0133	0.0017	0.0019	0.0000	0.0000	0.0000	0.0000	----	----	15
16	----	0.0011 A	0.0014 E	0.0128	0.0017	0.0006	0.0000	0.0007	0.0000	0.0000	----	----	16
17	----	----	0.0014 E	0.0121	0.0023	0.0000	0.0000	0.0003	0.0000	0.0000	----	0.0000 A	17
18	----	----	0.0014 E	0.0113	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	18
19	0.0002 A	----	0.0014 E	0.0115	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	19
20	----	----	0.0063 E	0.0107	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	20
21	----	----	0.0284 E	0.0092	0.0564	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	21
22	----	----	0.0322 E	0.0077	0.0573	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	22
23	----	----	0.1575 E	0.0067	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.1366	0.0055	0.0095	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	0.1014	0.0051	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	25
26	----	----	0.0783	0.0050	0.0207	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0596	0.0046	0.0179	0.0000	0.0000	0.0000	0.0000	0.0006	----	----	27
28	----	----	0.0422	0.0042	0.0106	0.0000	0.0000	0.0000	0.0000	0.0008	----	----	28
29	----		0.0307	0.0035	0.0054	0.0000	0.0000	0.0000	0.0000	0.0007	----	----	29
30	----		0.0235	0.0034	0.0026	0.0000	0.0000	0.0000	0.0000	0.0003	----	----	30
31	----		0.0169		0.0013		0.0000	0.0000		0.0001		0.0000 E	31
TOTAL	----	----	0.7392	0.5062	0.2398	0.1810	0.0000	0.0035	0.0000	0.0025	----	----	TOTAL
MEAN	----	----	0.0238	0.0169	0.0077	0.0060	0.0000	0.0001	0.0000	0.0001	----	----	MEAN
MAX	----	----	0.1575	0.0506	0.0573	0.0865	0.0000	0.0022	0.0000	0.0008	----	----	MAX
MIN	----	----	0.0014	0.0034	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

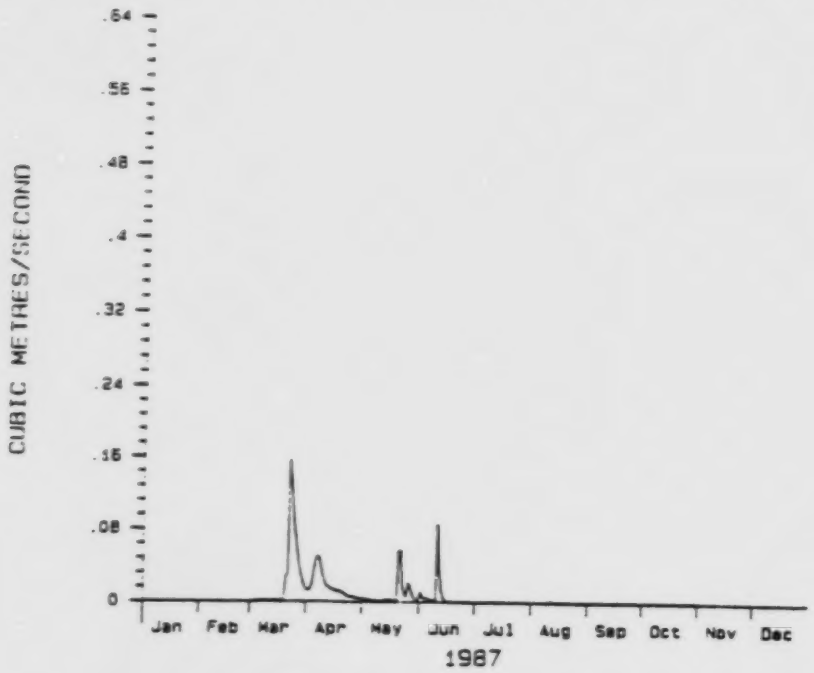
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	63867	43736	20719	15638	0	302	0	216	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE,	144478	CUBIC METRES
MEAN DISCHARGE,	0.0068	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1575	CUBIC METRES/SEC ON MAR 23
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 17
MAX INSTANTANEOUS FLOW,	M	CUBIC METRES/SEC ON MAR 23

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



EAST UPPER WEIR
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	0.0020 A	0.0090	0.0175	0.0001	0.0005	0.0052	0.0074	—	—	1
2	—	—	—	0.0018 E	0.0086	0.0118	0.0075	0.0016	0.0050	0.0208	—	—	2
3	—	—	—	0.0015 E	0.0081	0.0077	0.0989	0.0063	0.0019	0.0180	—	—	3
4	—	—	—	0.0013 E	0.0111	0.0052	0.0311	0.0030	0.0012	0.0127	—	—	4
5	—	—	—	0.0011 E	0.0148	0.0036	0.0251	0.0015	0.0009	0.0098	—	—	5
6	—	—	—	0.0010 A	0.0109	0.0037	0.0244	0.0010	0.0007	0.0107	—	—	6
7	—	—	—	0.0009 E	0.0085	0.0096	0.0125	0.0007	0.0007	0.0717	—	—	7
8	—	—	—	0.0008 E	0.0068	0.0072	0.0075	0.0010	0.0007	0.0272	—	—	8
9	—	—	—	0.0008 E	0.0063	0.0131	0.0051	0.0010	0.0006	0.0172	—	—	9
10	—	—	—	0.0007 E	0.0075	0.0236	0.0079	0.0007	0.0005	0.0360	—	—	10
11	—	—	—	0.0011 E	0.0081	0.0110	0.0029	0.0004	0.0006	0.0398	—	—	11
12	—	—	—	0.0019 A	0.0070	0.0071	0.0020	0.0005	0.0011	0.0216	—	—	12
13	—	—	—	0.0050	0.0063	0.0050	0.0017	0.0008	0.0021	0.0152	—	—	13
14	—	—	—	0.0119	0.0062	0.0059	0.0016	0.0006	0.0013	0.0119	—	—	14
15	—	—	—	0.0857	0.0064	0.0048	0.0021	0.0004	0.0011	0.0097	—	—	15
16	—	—	—	0.1090	0.0101	0.0037	0.0026	0.0001	0.0009	0.0077	—	—	16
17	—	—	—	0.0457	0.0165	0.0041	0.0164	0.0001	0.0009	0.0079	—	—	17
18	—	—	—	0.0272	0.0426	0.0033	0.0083	0.0005	0.0009	0.0095	—	—	18
19	—	—	—	0.0269	0.0291	0.0028	0.0049	0.0005	0.0009	0.0072	—	—	19
20	—	—	—	0.0227	0.0159	0.0025	0.0028	0.0002	0.0009	0.0059	—	—	20
21	—	—	—	0.0259	0.0105	0.0023	0.0018	0.0007	0.0008	0.0053	—	—	21
22	—	—	—	0.0751	0.0074	0.0020	0.0013	0.0012	0.0007	0.0052	—	—	22
23	—	—	—	0.0406	0.0062	0.0017	0.0010	0.0008	0.0243	0.0050	—	—	23
24	—	—	—	0.0340	0.0053	0.0015	0.0111	0.0005	0.0180	0.0048	—	—	24
25	—	—	—	0.0259	0.0048	0.0011	0.0049	0.0007	0.0095	0.0045	—	—	25
26	—	—	—	0.0157	0.0042	0.0009	0.0027	0.0006	0.0055	0.0043	—	—	26
27	—	—	—	0.0123	0.0035	0.0005	0.0014	0.0005	0.0064	0.0045	—	—	27
28	—	—	—	0.0109	0.0030	0.0005	0.0008	0.0004	0.0573	0.0044	—	—	28
29	—	—	—	0.0102	0.0028	0.0005	0.0008	0.0010	0.0249	0.0047	—	—	29
30	—	—	—	0.0096	0.0031	0.0002	0.0008	0.0009	0.0120	0.0052	—	—	30
31	—		—		0.0114	M	0.0005	0.0011		0.0049		—	31
TOTAL	—	—	—	0.5892	0.3038	0.1642	0.2883	0.0290	0.1845	0.4137	—	—	TOTAL
MEAN	—	—	—	0.0196	0.0098	0.0055	0.0093	0.0009	0.0062	0.0133	—	—	MEAN
MAX	—	—	—	0.1090	0.0426	0.0236	0.0989	0.0063	0.0573	0.0717	—	—	MAX
MIN	—	—	—	0.0007	0.0028	0.0002	0.0001	0.0001	0.0005	0.0043	—	—	MIN

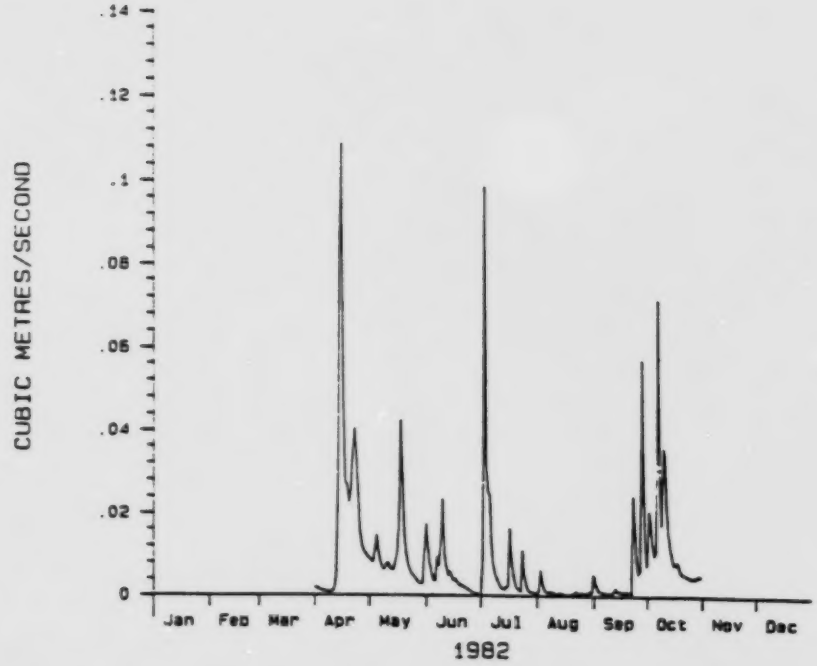
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	50907	26248	14187	24909	2506	15941	35744	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	170441	CUBIC METRES		
MEAN DISCHARGE,	0.0092	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.1090	CUBIC METRES/SEC	ON APR 16	
MIN DAILY DISCHARGE,	0.0001	CUBIC METRES/SEC	ON JUL 1	
MAX INSTANTANEOUS FLOW,	0.1920	CUBIC METRES/SEC	ON JUL 3	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



EAST UPPER VEIN

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	0.0005	0.0081	0.0076	0.0051	0.0000	0.0000	0.0055	—	—	1
2	—	—	—	0.0006	0.0076	0.0070	0.0027	0.0000	0.0000	0.0079	—	—	2
3	—	—	—	0.0015	0.0078	0.0055	0.0075	0.0000	0.0000	0.0025	—	—	3
4	—	—	—	0.0021	0.0080	0.0094	0.0192	0.0000	0.0000	0.0017	—	—	4
5	—	—	—	0.0020	0.0071	0.0065	0.0103	0.0000	0.0000	0.0033	—	—	5
6	—	—	—	0.0028	0.0066	0.0042	0.0052	0.0000	0.0000	0.0031	—	—	6
7	—	—	—	0.0057	0.0046	0.0072	0.0026	0.0000	0.0002	0.0021	—	—	7
8	—	—	—	0.0172	0.0052	0.0028	0.0015	0.0000	0.0002	0.0016	—	—	8
9	—	—	—	0.0279	0.0050	0.0028	0.0027	0.0000	0.0005	0.0012	—	—	9
10	—	—	—	0.0295	0.0059	0.0021	0.0005	0.0000	0.0004	0.0013	—	—	10
11	—	—	—	0.0186	0.0082	0.0015	0.0001	0.0000	0.0002	0.0022	—	—	11
12	—	—	—	0.0380	0.0126	0.0011	0.0000	0.0000	0.0001	0.0018	—	—	12
13	—	—	—	0.0287	0.0206	0.0013	0.0000	0.0000	0.0001	0.0014	—	—	13
14	—	—	—	0.0225	0.0120	0.0426	0.0000	0.0000	0.0001	0.0014	—	—	14
15	—	—	—	0.0218	0.0077	0.0249	0.0000	0.0000	0.0001	0.0013	—	—	15
16	—	—	—	0.0207	0.0061	0.0127	0.0005	0.0000	0.0009	0.0013	—	—	16
17	—	—	—	0.0195	0.0056	0.0074	0.0002	0.0000	0.0008	0.0013	—	—	17
18	—	—	—	0.0190	0.0069	0.0048	0.0000	0.0000	0.0018	0.0011	—	—	18
19	—	—	—	0.0209	0.0059	0.0031	0.0001	0.0000	0.0011	0.0010	—	—	19
20	—	—	—	0.0190	0.0056	0.0024	0.0000	0.0000	0.0008	0.0010	—	—	20
21	—	—	—	0.0242	0.0051	0.0021	0.0000	0.0011	0.0010	0.0010	—	—	21
22	—	—	—	0.0217	0.0115	0.0079	0.0000	0.0007	0.0008	0.0011	—	—	22
23	—	—	—	0.0172	0.0089	0.0054	0.0000	0.0002	0.0007	0.0011	—	—	23
24	—	—	—	0.0172	0.0074	0.0028	0.0000	0.0001	0.0006	0.0014	—	—	24
25	—	—	—	0.0162	0.0053	0.0018	0.0000	0.0001	0.0005	0.0014	—	—	25
26	—	—	—	0.0161	0.0044	0.0011	0.0000	0.0000	0.0004	0.0013	—	—	26
27	—	—	—	0.0143	0.0040	0.0008	0.0000	0.0000	0.0003	0.0015	—	—	27
28	—	—	—	0.0113	0.0054	0.0006	0.0000	0.0000	0.0004	0.0012	—	—	28
29	—		—	0.0104	0.0058	0.0006	0.0000	0.0000	0.0005	0.0011	—	—	29
30	—		—	0.0085	0.0049	0.0029	0.0000	0.0001	0.0011	0.0010	—	—	30
31	—		—		0.0045		0.0000	0.0000		0.0010		—	31
TOTAL	—	—	—	0.4958	0.2253	0.1709	0.0538	0.0023	0.0130	0.0529	—	—	TOTAL
MEAN	—	—	—	0.0165	0.0073	0.0057	0.0017	0.0001	0.0004	0.0017	—	—	MEAN
MAX	—	—	—	0.0786	0.0206	0.0426	0.0192	0.0011	0.0018	0.0055	—	—	MAX
MIN	—	—	—	0.0005	0.0040	0.0006	0.0000	0.0000	0.0000	0.0010	—	—	MIN

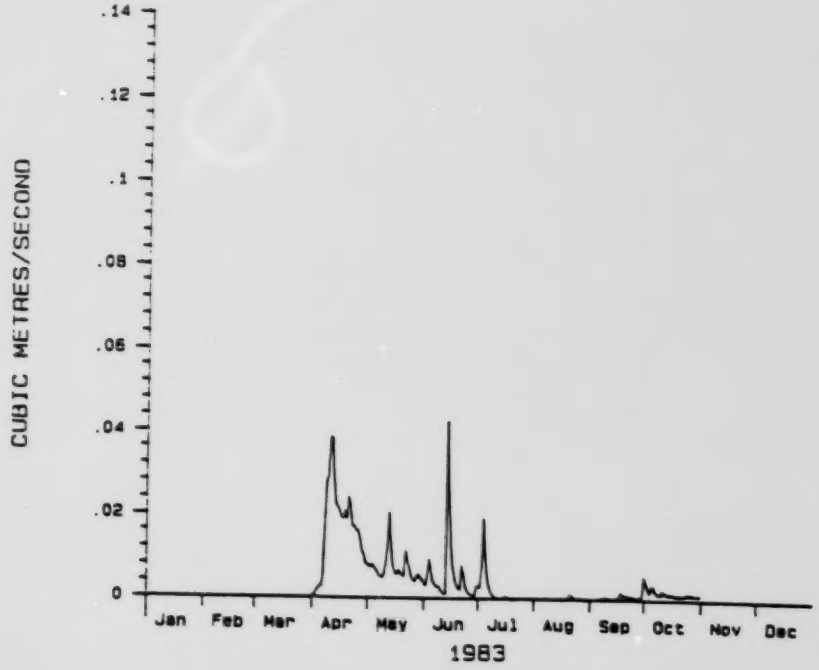
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	42837	19466	14766	4648	199	1123	4571	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	87610	CUBIC METRES	
MEAN DISCHARGE,	0.0048	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0426	CUBIC METRES/SEC ON	JUN 14
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	JUL 12
MAX INSTANTANEOUS FLOW,	0.0607	CUBIC METRES/SEC ON	APR 11

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



EAST UPPER WEIR
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	0.0082 E	0.0046	0.0006	0.0006	0.0000	0.0000	0.0001	—	—	1
2	—	—	—	0.0112 E	0.0057	0.0004	0.0008	0.0000	0.0000	0.0001	—	—	2
3	—	—	—	0.0141 E	0.0052	0.0003	0.0015	0.0000	0.0000	0.0001	—	—	3
4	—	—	—	0.0182 A	0.0028	0.0005	0.0007	0.0000	0.0000	0.0001	—	—	4
5	—	—	—	0.0224	0.0025	0.0084	0.0007	0.0000	0.0000	0.0002	—	—	5
6	—	—	—	0.0278	0.0026	0.0059	0.0005	0.0000	0.0000	0.0002	—	—	6
7	—	—	—	0.0276	0.0076	0.0122	0.0003	0.0000	0.0000	0.0002	—	—	7
8	—	—	—	0.0254	0.0086	0.0124	0.0001	0.0000	0.0000	0.0002	—	—	8
9	—	—	—	0.0247	0.0071	0.0168	0.0001	0.0000	0.0000	0.0002	—	—	9
10	—	—	—	0.0220	0.0061	0.0108	0.0001	0.0000	0.0000	0.0002	—	—	10
11	—	—	—	0.0198	0.0080	0.0053	0.0000	0.0000	0.0000	0.0002	—	—	11
12	—	—	—	0.0182	0.0076	0.0047	0.0000	0.0000	0.0000	0.0002	—	—	12
13	—	—	—	0.0152	0.0050	0.0132	0.0003	0.0000	0.0000	0.0002	—	—	13
14	—	—	—	0.0118	0.0040	0.0072	0.0021	0.0000	0.0000	0.0041	—	—	14
15	—	—	—	0.0087	0.0030	0.0047	0.0007	0.0000	0.0000	0.0053	—	—	15
16	—	—	—	0.0071	0.0027	0.0041	0.0008	0.0000	0.0000	0.0036	—	—	16
17	—	—	—	0.0058	0.0024	0.0033	0.0008	0.0000	0.0000	0.0349	—	—	17
18	—	—	—	0.0049	0.0021	0.0026	0.0003	0.0000	0.0000	0.0133	—	—	18
19	—	—	—	0.0044	0.0023	0.0016	0.0001	0.0000	0.0000	0.0287	—	—	19
20	—	—	—	0.0044	0.0023	0.0011	0.0000	0.0000	0.0000	0.0243	—	—	20
21	—	—	—	0.0038	0.0039	0.0017	0.0001	0.0000	0.0000	0.0170	—	—	21
22	—	—	—	0.0033	0.0032	0.0062	0.0001	0.0000	0.0000	0.0153	—	—	22
23	—	—	—	0.0031	0.0025	0.0039	0.0001	0.0000	0.0000	0.0105	—	—	23
24	—	—	—	0.0031	0.0023	0.0025	0.0000	0.0000	0.0000	0.0075	—	—	24
25	—	—	—	0.0034	0.0021	0.0013	0.0000	0.0000	0.0001	0.0060	—	—	25
26	—	—	—	0.0036	0.0017	0.0047	0.0000	0.0000	0.0001	0.0054	—	—	26
27	—	—	—	0.0101	0.0015	0.0113	0.0000	0.0000	0.0002	0.0052	—	—	27
28	—	—	—	0.0141	0.0013	0.0041	0.0000	0.0000	0.0002	0.0051	—	—	28
29	—		—	0.0077	0.0011	0.0022	0.0000	0.0000	0.0002	0.0042	—	—	29
30	—		—	0.0057	0.0009	0.0012	0.0000	0.0000	0.0002	0.0035	—	—	30
31	—		—		0.0008		0.0001	0.0000		0.0028 A		—	31
TOTAL	—	—	—	0.3598	0.1095	0.1552	0.0109	0.0000	0.0010	0.1989	—	—	TOTAL
MEAN	—	—	—	0.0120	0.0035	0.0052	0.0004	0.0000	.0000	0.0064	—	—	MEAN
MAX	—	—	—	0.0278	0.0086	0.0168	0.0021	0.0000	0.0002	0.0349	—	—	MAX
MIN	—	—	—	0.0031	0.0008	0.0003	0.0000	0.0000	0.0000	0.0001	—	—	MIN

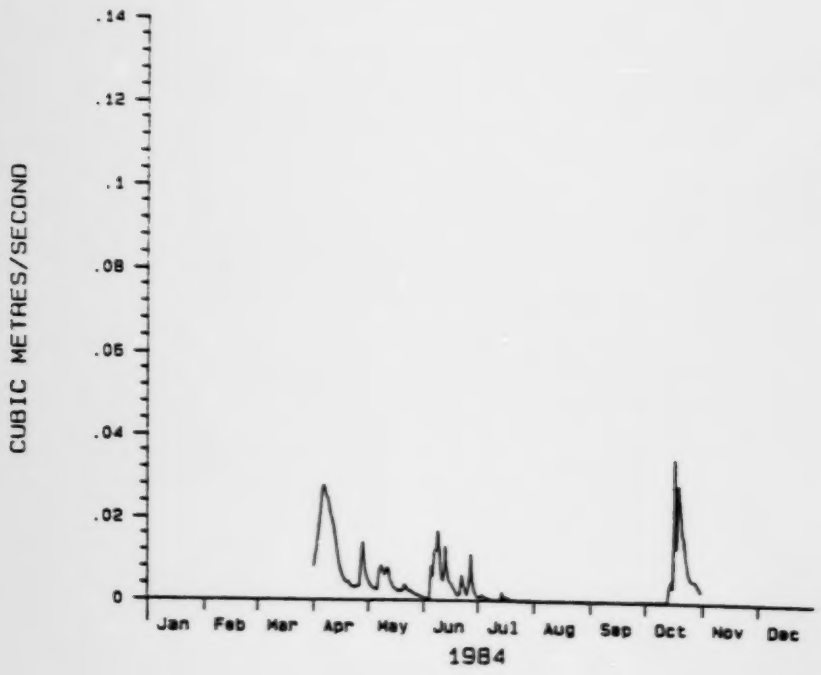
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	31087	9461	13409	942	0	86	17185	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	72170	CUBIC METRES	
MEAN DISCHARGE,	0.0059	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0349	CUBIC METRES/SEC	ON OCT 17
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUL 11
MAX INSTANTANEOUS FLOW,	0.0484	CUBIC METRES/SEC	ON OCT 17

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0764	0.0260	0.0203	0.0231	0.2820	0.1280	0.0410	0.0647	0.0106	0.0493	0.1060	0.0591	1
2	0.0579	0.0257	0.0190	0.0249	0.2560	0.1250	0.0480	0.0631	0.0098	0.0664	0.1070	0.0592	2
3	0.0764	0.0238	0.0177	0.0285	0.2410	0.1170	0.1290	0.0695	0.0097	0.0847	0.0980	0.0581	3
4	0.0385	0.0219	0.0186	0.0317	0.2430	0.1090	0.1860	0.0651	0.0096	0.0996	0.0905	0.0593	4
5	0.0571	0.0227	0.0184	0.0308	0.2360	0.1040	0.2620	0.0619	0.0095	0.1150	0.0839	0.0569	5
6	0.0377	0.0224	0.0175	0.0306	0.2210	0.1020	0.3150	0.0581	0.0069	0.1220	0.0786	0.0549	6
7	0.0360	0.0226	0.0173	0.0308	0.1980	0.1100	0.3180	0.0527	0.0063	0.1960	0.0758	0.0536	7
8	0.0362	0.0218	0.0165	0.0305	0.1930	0.1060	0.3020	0.0512	0.0063	0.2530	0.0736	0.0513	8
9	0.0340	0.0220	0.0155	0.0311	0.1810	0.1100	0.2700	0.0442	0.0066	0.2890	0.0696	0.0489	9
10	0.0317	0.0216	0.0160	0.0320	0.1580	0.1260	0.2480	0.0390	0.0073	0.3340	0.0675	0.0479	10
11	0.0330	0.0212	0.0161	0.0307	0.1650	0.1280	0.2260	0.0369	0.0071	0.3810	0.0703	0.0470	11
12	0.0313	0.0201	0.0180	0.0314	0.1570	0.1250	0.2120	0.0331	0.0075	0.3900	0.0649	0.0434	12
13	0.0321	0.0201	0.0213	0.0310	0.1630	0.1260	0.1950	0.0335	0.0079	0.3770	0.0596	0.0440	13
14	0.0330	0.0198	0.0214	0.0352	0.1500	0.1290	0.1780	0.0318	0.0064	0.3540	0.0578	0.0428	14
15	0.0308	0.0210	0.0224	0.0614	0.1440	0.1190	0.1600	0.0298	0.0047	0.3190	0.0571	0.0398	15
16	0.0291	0.0198	0.0214	0.2220	0.1430	0.1130	0.1550	0.0274	0.0052	0.2810	0.0545	0.0391	16
17	0.0282	0.0212	0.0224	0.5560	0.1480	0.1080	0.1650	0.0248	0.0029	0.2610	0.0529	0.0388	17
18	0.0295	0.0218	0.0224	0.6330	0.1680	0.1030	0.1610	0.0230	0.0022	0.2460	0.0516	0.0391	18
19	0.0288	0.0216	0.0208	0.6000	0.1860	0.0964	0.1550	0.0221	0.0020	0.2210	0.0518	0.0377	19
20	0.0281	0.0230	0.0209	0.5550	0.1900	0.0912	0.1460	0.0195	0.0010	0.1980	0.0576	0.0370	20
21	0.0279	0.0231	0.0213	0.5140	0.1960	0.0885	0.1390	0.0186	0.0004	0.1810	0.0642	0.0363	21
22	0.0277	0.0218	0.0208	0.4890	0.1990	0.0839	0.1250	0.0183	0.0002	0.1670	0.0663	0.0362	22
23	0.0278	0.0192	0.0202	0.4860	0.1880	0.0803	0.1140	0.0180	0.0003	0.1590	0.0658	0.0367	23
24	0.0303	0.0190	0.0207	0.4720	0.1740	0.0769	0.1260	0.0158	0.0098	0.1550	0.0635	0.0362	24
25	0.0305	0.0181	0.0213	0.4420	0.1660	0.0714	0.1190	0.0145	0.0095	0.1470	0.0636	0.0342	25
26	0.0296	0.0184	0.0190	0.4080	0.1580	0.0644	0.1120	0.0124	0.0099	0.1390	0.0638	0.0329	26
27	0.0299	0.0181	0.0186	0.3800	0.1500	0.0608	0.1020	0.0100	0.0106	0.1330	0.0609	0.0316	27
28	0.0286	0.0190	0.0198	0.3480	0.1390	0.0561	0.0944	0.0092	0.0230	0.1300	0.0615	0.0305	28
29	0.0287		0.0198	0.3180	0.1270	0.0505	0.0867	0.0092	0.0750	0.1220	0.0615	0.0290	29
30	0.0280		0.0211	0.2950	0.1170	0.0453	0.0818	0.0084	0.0406	0.1170	0.0595	0.0272	30
31	0.0262		0.0234		0.1220		0.0750	0.0081		0.1100		0.0276	31
TOTAL	0.9861	0.6048	0.6099	7.2115	5.5580	2.9507	5.0469	0.9939	0.2718	6.1966	2.0562	1.3184	TOTAL
MEAN	0.0318	0.0216	0.0197	0.2404	0.1793	0.0984	0.1628	0.0321	0.0091	0.1999	0.0685	0.0425	MEAN
MAX	0.0764	0.0260	0.0234	0.6330	0.2820	0.1290	0.3180	0.0695	0.0406	0.3900	0.1060	0.0593	MAX
MIN	0.0262	0.0181	0.0155	0.0231	0.1170	0.0453	0.0410	0.0081	0.0002	0.0493	0.0516	0.0272	MIN

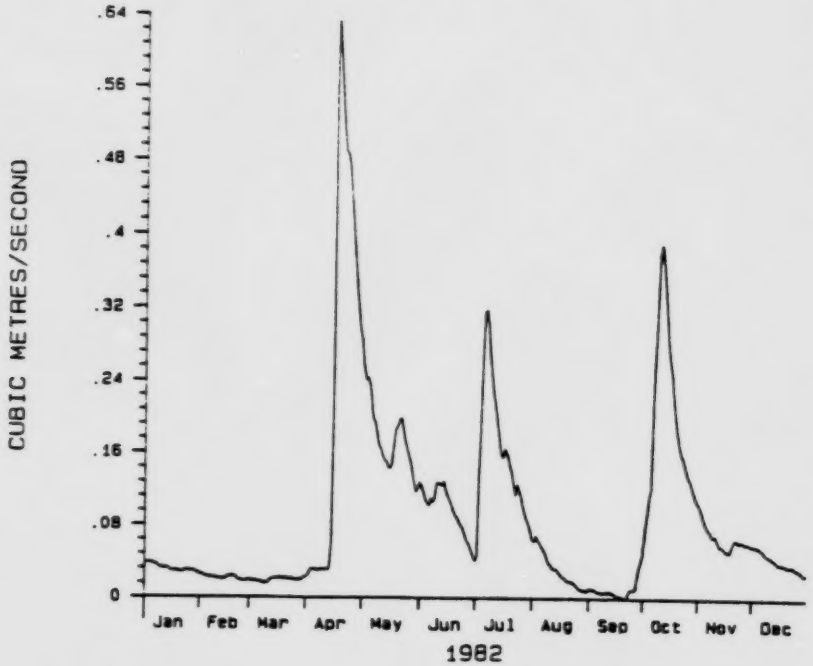
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
85199	52255	52695	623074	480211	254940	436052	85873	23484	535386	177656	113910

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	2900[illegible]	CUBIC METRES		
MEAN DISCHARGE,	0.0922	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.6330	CUBIC METRES/SEC	ON	APR 18
MIN DAILY DISCHARGE,	0.0002	CUBIC METRES/SEC	ON	SEP 21
MAX INSTANTANEOUS FLOW,	0.6420	CUBIC METRES/SEC	ON	APR 18

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0280	0.0230 E	0.0207	0.0275	0.1890	0.0778	0.0664	0.0148	0.0000	0.0000	0.0000	0.0000	1
2	0.0262	0.0210 E	0.0205	0.0334	0.1700	0.0740	0.0608	0.0129	0.0000	0.0000	0.0000	0.0000	2
3	0.0259	0.0210 E	0.0221	0.0351	0.1590	0.0716	0.0672	0.0120	0.0000	0.0000	0.0000	0.0000	3
4	0.0257	0.0210 E	0.0227	0.0352	0.1510	0.0731	0.0795	0.0107	0.0000	0.0000	0.0000	0.0000	4
5	0.0247	0.0200 E	0.0229	0.0379	0.1430	0.0687	0.0767	0.0122	0.0000	0.0000	0.0000	0.0000	5
6	0.0243	0.0200 E	0.0248	0.0407	0.1340	0.0641	0.0752	0.0106	0.0000	0.0000	0.0000	0.0000	6
7	0.0243	0.0190 E	0.0265	0.0433	0.1260	0.0607	0.0763	0.0092	0.0000	0.0000	0.0000	0.0000	7
8	0.0235	0.0170 A	0.0269	0.0487	0.1140	0.0561	0.0754	0.0063	0.0000	0.0000	0.0000	0.0000	8
9	0.0243	0.0188	0.0264	0.0611	0.1050	0.0536	0.0712	0.0044	0.0000	0.0000	0.0000	0.0000	9
10	0.0236	0.0181	0.0268	0.0764	0.1020	0.0506	0.0662	0.0030	0.0000	0.0000	0.0000	0.0000	10
11	0.0300 A	0.0192	0.0264	0.1040	0.1020	0.0500	0.0587	0.0014	0.0000	0.0000	0.0000	0.0000	11
12	0.0310 E	0.0203	0.0277	0.1450	0.1050	0.0477	0.0529	0.0002	0.0000	0.0000	0.0000	0.0000	12
13	0.0310 E	0.0204	0.0281	0.1930	0.1180	0.0468	0.0496	0.0000	0.0000	0.0000	0.0000	0.0000	13
14	0.0340 E	0.0191	0.0268	0.2250	0.1280	0.0775	0.0477	0.0000	0.0000	0.0000	0.0000	0.0000	14
15	0.0330 E	0.0194	0.0264	0.2360	0.1330	0.0935	0.0434	0.0000	0.0000	0.0000	0.0000	0.0000	15
16	0.0330 E	0.0194	0.0264	0.2350	0.1300	0.1040	0.0433	0.0000	0.0000	0.0000	0.0000	0.0000	16
17	0.0330 E	0.0198	0.0262	0.2250	0.1290	0.1170	0.0421	0.0000	0.0000	0.0000	0.0000	0.0000	17
18	0.0320 E	0.0195	0.0259	0.2090	0.1320	0.1240	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	18
19	0.0300 E	0.0213	0.0254	0.2060	0.1300	0.1240	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	19
20	0.0300 E	0.0214	0.0238	0.2050	0.1210	0.1200	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	20
21	0.0290 E	0.0205	0.0220	0.2110	0.1160	0.1170	0.0339	0.0000	0.0000	0.0000	0.0000	0.0000	21
22	0.0290 E	0.0204	0.0220	0.2200	0.1210	0.1220	0.0296	0.0700	0.0000	0.0000	0.0000	0.0000	22
23	0.0280 E	0.0193	0.0221	0.2250	0.1180	0.1170	0.0246	0.0000	0.0000	0.0000	0.0000	0.0000	23
24	0.0280 E	0.0198	0.0219	0.2320	0.1180	0.1110	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	24
25	0.0270 E	0.0179	0.0217	0.2260	0.1100	0.1020	0.0199	0.0000	0.0000	0.0000	0.0000	0.0000	25
26	0.0260 E	0.0182	0.0220	0.2240	0.1070	0.0952	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000	26
27	0.0250 E	0.0198	0.0221	0.2180	0.1040	0.0829	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	27
28	0.0250 E	0.0207	0.0208	0.2080	0.0987	0.0776	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	28
29	0.0260 E		0.0202	0.2050	0.0938	0.0693	0.0143	0.0000	0.0000	0.0000	0.0000	0.0000	29
30	0.0240 E		0.0202	0.2030	0.0909	0.0710	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	30
31	0.0230 E		0.0214		0.0894		0.0145	0.0000		0.0000		0.0000	31
TOTAL	0.8705	0.5490	0.7334	4.5939	3.7829	2.5219	1.3871	0.0977	0.0000	0.0000	0.0000	0.0000	TOTAL
MEAN	0.0281	0.0196	0.0239	0.1531	0.1220	0.0841	0.0447	0.0032	0.0000	0.0000	0.0000	0.0000	MEAN
MAX	0.0340	0.0230	0.0281	0.2360	0.1890	0.1240	0.0785	0.0148	0.0000	0.0000	0.0000	0.0000	MAX
MIN	0.0230	0.0170	0.0202	0.0275	0.0894	0.0468	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	MIN

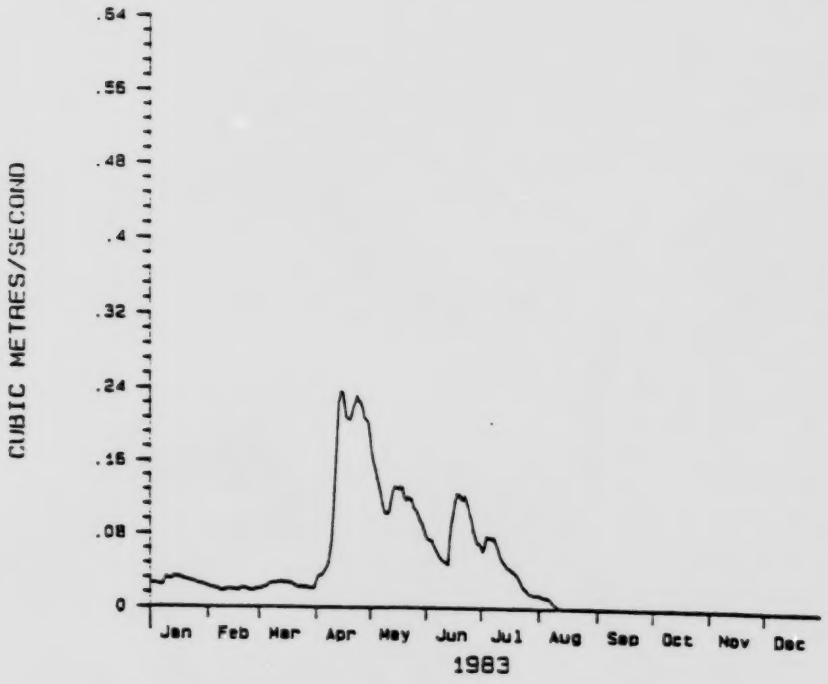
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
75211	47434	63384	396913	326834	217892	119845	8441	0	0	0	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	1256455	CUBIC METRES		
MEAN DISCHARGE,	0.0399	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.2360	CUBIC METRES/SEC	ON	APR 15
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON	AUG 13
MAX INSTANTANEOUS FLOW,	0.2390	CUBIC METRES/SEC	ON	APR 15

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000	0.0000	0.0000	0.0000 E	0.1140 E	0.0410 E	0.0480 E	0.0074	0.0000	0.0000	0.0602	0.0743	1
2	0.0000	0.0000	0.0000	0.0000 E	0.1100 E	0.0370 E	0.0470 E	0.0066	0.0000	0.0000	0.0634	0.0742	2
3	0.0000	0.0000	0.0000	0.0000 E	0.1050 E	0.0340 E	0.0460 E	0.0059	0.0000	0.0000	0.0670	0.0728	3
4	0.0000	0.0000	0.0000	0.0050 E	0.0980 A	0.0310 A	0.0420 E	0.0049	0.0000	0.0000	0.0660	0.0704	4
5	0.0000	0.0000	0.0000	0.0200 E	0.0920 E	0.0390 E	0.0400 E	0.0053	0.0000	0.0000	0.0657	0.0693	5
6	0.0000	0.0000	0.0000	0.0650 E	0.0900 E	0.0410 A	0.0370 E	0.0021	0.0000	0.0000	0.0644	0.0675	6
7	0.0000	0.0000	0.0000	0.1100 E	0.0880 E	0.0480 E	0.0340 E	0.0007	0.0000	0.0000	0.0637	0.0660	7
8	0.0000	0.0000	0.0000	0.1500 E	0.0840 E	0.0510 E	0.0320 E	0.0000	0.0000	0.0000	0.0663	0.0676	8
9	0.0000	0.0000	0.0000	0.1900 E	0.0850 E	0.0680 E	0.0310 E	0.0000	0.0000	0.0000	0.0671	0.0646	9
10	0.0000	0.0000	0.0000	0.2300 E	0.0850 E	0.0890 E	0.0280 E	0.0000	0.0000	0.0000	0.0651	0.0622	10
11	0.0000	0.0000	0.0000	0.2550 E	0.0880 E	0.0990 E	0.0260 E	0.0000	0.0000	0.0000	0.0642	0.0602	11
12	0.0000	0.0000	0.0000	0.2620 E	0.0890 E	0.0970 E	0.0250 E	0.0000	0.0000	0.0000	0.0639	0.0588	12
13	0.0000	0.0000	0.0000	0.2630 A	0.0890 E	0.0950 E	0.0250 E	0.0000	0.0000	0.0000	0.0638	0.0567	13
14	0.0000	0.0000	0.0000	0.2600	0.0870 E	0.0970 E	0.0280 E	0.0000	0.0000	0.0004	0.0655	0.0550	14
15	0.0000	0.0000	0.0000	0.2470	0.0940 E	0.0950 E	0.0260 E	0.0000	0.0000	0.0000	0.0659	0.0539	15
16	0.0000	0.0000	0.0000	0.2270	0.0890 E	0.0920 E	0.0240 E	0.0000	0.0000	0.0001	0.0672	0.0513	16
17	0.0000	0.0000	0.0000	0.2070	0.0860 E	0.0880 E	0.0240 E	0.0000	0.0000	0.0006	0.0686	0.0491	17
18	0.0000	0.0000	0.0000	0.1950	0.0790 E	0.0840 E	0.0230 A	0.0000	0.0000	0.0000	0.0676	0.0645	18
19	0.0000 A	0.0000	0.0000	0.1790	0.0760 E	0.0750 E	0.0200 A	0.0000	0.0000	0.0006	0.0674	0.0633	19
20	0.0000	0.0000	0.0000	0.1660	0.0720 E	0.0690 E	0.0176	0.0000	0.0000	0.0028	0.0657	0.0619	20
21	0.0000	0.0000	0.0000	0.1570	0.0710 E	0.0660 E	0.0164	0.0000	0.0000	0.0070	0.0649	0.0613	21
22	0.0000	0.0000	0.0000	0.1480	0.0670 E	0.0670 E	0.0156	0.0000	0.0000	0.0128	0.0659	0.0585	22
23	0.0000	0.0000	0.0000	0.1390	0.0650 E	0.0630 E	0.0141	0.0000	0.0000	0.0187	0.0644	0.0566	23
24	0.0000	0.0000	0.0000	0.1310	0.0630 E	0.0580 E	0.0119	0.0000	0.0000	0.0254	0.0637	0.0537	24
25	0.0000	0.0000	0.0000	0.1230	0.0590 E	0.0540 E	0.0110	0.0000	0.0000	0.0320	0.0633	0.0520	25
26	0.0000	0.0000	0.0000	0.1130 A	0.0540 E	0.0550 E	0.0096	0.0000	0.0000	0.0390	0.0641	0.0493	26
27	0.0000	0.0000	0.0000 A	0.1150 E	0.0520 E	0.0490 E	0.0091	0.0000	0.0000	0.0455	0.0677	0.0488	27
28	0.0000	0.0000	0.0000 E	0.1230 E	0.0490 E	0.0560 E	0.0079	0.0000	0.0000	0.0507	0.0709	0.0497	28
29	0.0000	0.0000	0.0000 E	0.1290 E	0.0460 E	0.0650 E	0.0065	0.0000	0.0000	0.0540	0.0756	0.0507	29
30	0.0000	0.0000	0.0000 E	0.1180 E	0.0450 E	0.0510 E	0.0073	0.0000	0.0000	0.0561	0.0746	0.0480	30
31	0.0000	0.0000	0.0000 E		0.0420 E		0.0077	0.0000		0.0593		0.0456	31
TOTAL	0.0000	0.0000	0.0000	4.3210	2.4160	1.9340	0.7417	0.0309	0.0000	0.4050	1.9799	1.8538	TOTAL
MEAN	0.0000	0.0000	0.0000	0.1440	0.0779	0.0645	0.0239	0.0010	0.0000	0.0131	0.0660	0.0601	MEAN
MAX	0.0000	0.0000	0.0000	0.2630	0.1140	0.0970	0.0480	0.0074	0.0000	0.0593	0.0746	0.0743	MAX
MIN	0.0000	0.0000	0.0000	0.0000	0.0420	0.0310	0.0065	0.0000	0.0000	0.0000	0.0602	0.0456	MIN

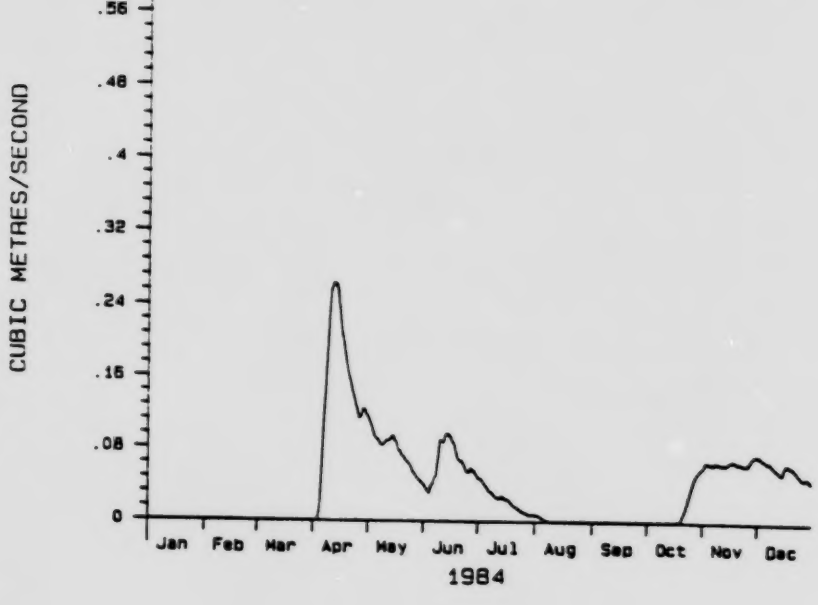
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	373334	208742	167098	64083	2670	0	34992	171063	161035

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	1183017	CUBIC METRES
MEAN DISCHARGE,	0.0375	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.2630	CUBIC METRES/SEC ON APR 13
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JAN 1
MAX INSTANTANEOUS FLOW,	0.2710	CUBIC METRES/SEC ON APR 14

A PARTIAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0426	0.0175	0.0155	0.0185	0.3614	0.1413	0.2400	0.0218 E	0.0604	0.1539	0.0760	0.0432	1
2	0.0414	0.0171	0.0142	0.0219	0.3355	0.1306	0.2242	0.0207 E	0.0671	0.1524	0.0719	0.0420	2
3	0.0408	0.0168	0.0127	0.0270	0.3108	0.1238	0.2073	0.0184 E	0.0687	0.1487	0.0679	0.0408	3
4	0.0403	0.0165	0.0124	0.0307	0.3255	0.1150	0.1894	0.0215 E	0.0703	0.1450	0.0641	0.0426	4
5	0.0397	0.0161	0.0111	0.0332	0.3380	0.1098	0.1743	0.0215 E	0.0711	0.1353	0.0596	0.0426	5
6	0.0375	0.0161	0.0112	0.0375	0.3431	0.1026	0.1569	0.0207 E	0.0664	0.1306	0.0604	0.0408	6
7	0.0397	0.0178	0.0136	0.0408	0.3330	0.1006	0.1474	0.0187 E	0.0626	0.1216	0.0568	0.0420	7
8	0.0389	0.0200	0.0145	0.0450	0.3060	0.0957	0.1353	0.0174 E	0.0561	0.1425	0.0533	0.0414	8
9	0.0353	0.0211	0.0142	0.0475	0.2943	0.0892	0.1172	0.0151 E	0.0520	0.1377	0.0507	0.0414	9
10	0.0353	0.0204	0.0148	0.0513	0.2761	0.0828	0.1016	0.0151 E	0.0500	0.1295	0.0481	0.0391	10
11	0.0348	0.0195	0.0151	0.0568	0.3330	0.0777	0.0901	0.0138 E	0.0456	0.1261	0.0456	0.0391	11
12	0.0332	0.0181	0.0139	0.0641	0.3668	0.0735	0.0829	0.0151 E	0.0432	0.1226	0.0468	0.0374	12
13	0.0322	0.0185	0.0142	0.0719	0.4785	0.0719	0.0802	0.0220 E	0.0402	0.1401	0.0450	0.0368	13
14	0.0303	0.0171	0.0136	0.0820	0.4947	0.0679	0.0719	0.0253 E	0.0386	0.1450	0.0438	0.0363	14
15	0.0307	0.0165	0.0126	0.0910	0.4914	0.0679	0.0633	0.0259 E	0.0369	0.1487	0.0432	0.0348	15
16	0.0307	0.0175	0.0133	0.1016	0.5525	0.0752	0.0575	0.0253 E	0.0374	0.1512	0.0414	0.0342	16
17	0.0307	0.0171	0.0133	0.1056	0.5248	0.0820	0.0540	0.0312 E	0.0364	0.1563	0.0402	0.0337	17
18	0.0298	0.0161	0.0130	0.1150	0.4658	0.0820	0.0561	0.0271 E	0.0521	0.1550	0.0402	0.0332	18
19	0.0293	0.0155	0.0124	0.1194	0.4172	0.0785	0.0561	0.0429 E	0.1840	0.1500	0.0474	0.0322	19
20	0.0279	0.0158	0.0106	0.1318	0.3749	0.0743	0.0500	0.0488 E	0.2776	0.1474	0.0487	0.0312	20
21	0.0266	0.0161	0.0171	0.1867	0.3380	0.0794	0.0438	0.0547	0.3380	0.1437	0.0474	0.0307	21
22	0.0257	0.0158	0.0158	0.6496	0.3084	0.1283	0.0391	0.0611	0.3226	0.1365	0.0481	0.0327	22
23	0.0235	0.0158	0.0185	0.8805	0.2943	0.1525	0.0380	0.0671	0.3483	0.1330	0.0481	0.0303	23
24	0.0223	0.0151	0.0196	0.9245	0.2524	0.1569	0.0380	0.0727	0.3205	0.1227	0.0474	0.0288	24
25	0.0215	0.0148	0.0219	0.8757	0.2301	0.1678	0.0348	0.0760	0.2966	0.1172	0.0450	0.0288	25
26	0.0223	0.0142	0.0240	0.5994	0.2036	0.1877	0.0322	0.0743	0.2695	0.1108	0.0494	0.0307	26
27	0.0231	0.0133	0.0256	0.5299	0.1776	0.2054	0.0288	0.0735	0.2462	0.1016	0.0474	0.0298	27
28	0.0223	0.0151	0.0171	0.4855	0.1585	0.2301	0.0266	0.0719	0.2301	0.0948	0.0456	0.0293	28
29	0.0219		0.0171	0.4221	0.1576	0.2400	0.0244	0.0687	0.2091	0.0910	0.0456	0.0298	29
30	0.0211		0.0171	0.4172	0.1589	0.2421	0.0219	0.0633	0.1877	0.0846	0.0444	0.0293	30
31	0.0200		0.0185		0.1538		0.0235 E	0.0641		0.0802		0.0279	31
TOTAL	0.9494	0.4703	0.4806	7.2637	10.1565	3.6325	2.7067	1.2277	4.1853	4.0637	1.5195	1.0909	TOTAL
MEAN	0.0306	0.0168	0.0155	0.2421	0.3276	0.1211	0.0873	0.0396	0.1395	0.1311	0.0507	0.0352	MEAN
MAX	0.0426	0.0211	0.0266	0.9245	0.5525	0.2421	0.2400	0.0760	0.3483	0.1563	0.0760	0.0432	MAX
MIN	0.0200	0.0133	0.0106	0.0185	0.1538	0.0679	0.0219	0.0138	0.0364	0.0802	0.0402	0.0279	MIN

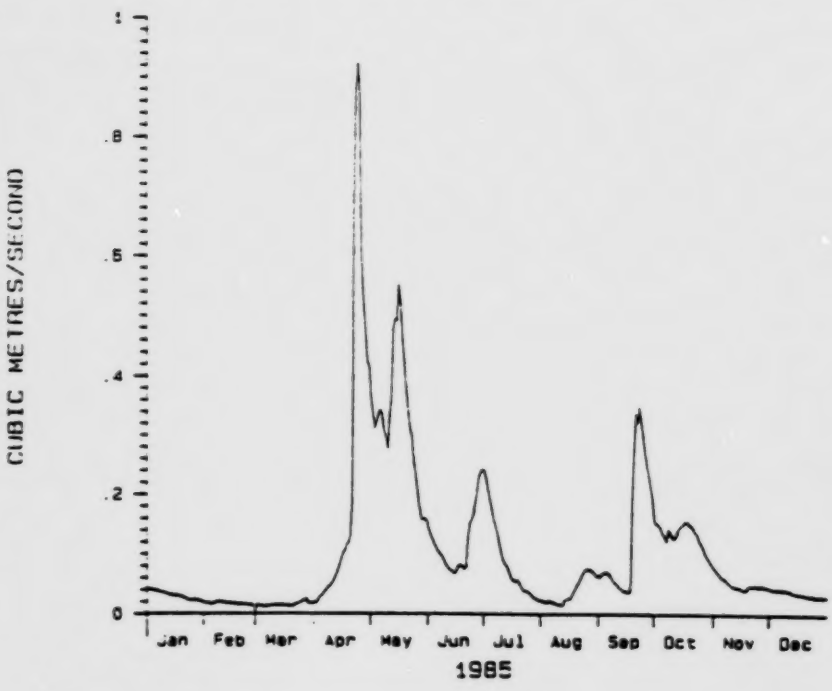
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
82028	40634	41524	627584	877522	313848	233859	106073	361610	351104	131285	94255

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE.	3261325	CUBIC METRES
MEAN DISCHARGE.	0.1031	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.9245	CUBIC METRES/SEC ON APR 24
MIN DAILY DISCHARGE.	0.0106	CUBIC METRES/SEC ON MAR 20
MAX INSTANTANEOUS FLOW.	0.9295	CUBIC METRES/SEC ON APR 23

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0288	0.0169 E	0.0165	0.0584	0.5929	0.0565	0.0079	0.0000	0.0000	0.0000	0.0000 E	0.0094	1
2	0.0241	0.0167 E	0.0167	0.0964	0.5448	0.0486	0.0066	0.0000	0.0000	0.0000	0.0000 E	0.0093	2
3	0.0245	0.0165 E	0.0167	0.1387	0.4991	0.0440	0.0058	0.0000	0.0000	0.0000	0.0000 E	0.0093	3
4	0.0246	0.0164 E	0.0160	0.1881	0.4539	0.0403	0.0065	0.0000	0.0000	0.0000	0.0000 A	0.0095	4
5	0.0240	0.0162 E	0.0163	0.2340	0.4765	0.0354	0.0105	0.0000	0.0000	0.0000	0.0000	0.0091	5
6	0.0232	0.0161 E	0.0147	0.2648	0.4620	0.0317	0.0107	0.0000	0.0000	0.0000	0.0000	0.0090	6
7	0.0219	0.0150 E	0.0129	0.2894	0.4227	0.0297	0.0090	0.0001	0.0000	0.0000	0.0000	0.0090	7
8	0.0227	0.0168 E	0.0145	0.3033	0.3870	0.0247	0.0084	0.0002	0.0000	0.0000	0.0000	0.0094	8
9	0.0250	0.0167 E	0.0167	0.2878	0.3573	0.0223	0.0080	0.0000	0.0000	0.0000	0.0000	0.0095	9
10	0.0239	0.0165 E	0.0177	0.2802	0.3308	0.0207	0.0068	0.0000	0.0000	0.0000	0.0000	0.0092	10
11	0.0224	0.0174 E	0.0184	0.2699	0.3092	0.0175	0.0067	0.0000	0.0000	0.0000	0.0000	0.0091	11
12	0.0220	0.0162 E	0.0183	0.2610	0.2896	0.0152	0.0068	0.0000	0.0000	0.0000	0.0000	0.0088	12
13	0.0226	0.0161 E	0.0179	0.2749	0.2664	0.0134	0.0065	0.0000	0.0000	0.0000	0.0000	0.0087	13
14	0.0226	0.0150 E	0.0180	0.2610	0.2466	0.0117	0.0062	0.0000	0.0000	0.0000	0.0000	0.0086	14
15	0.0211	0.0146 E	0.0174	0.2054	0.2296	0.0115	0.0062	0.0000	0.0000	0.0000	0.0000	0.0093	15
16	0.0216	0.0147 E	0.0177	0.1891	0.2080	0.0111	0.0063	0.0002	0.0000	0.0000	0.0000	0.0094	16
17	0.0218	0.0145 A	0.0174	0.1767	0.1870	0.0096	0.0060	0.0000	0.0000	0.0000	0.0000	0.0088	17
18	0.0216	0.0139	0.0171	0.1618	0.1672	0.0093	0.0059	0.0000	0.0000	0.0000	0.0000	0.0088	18
19	0.0207	0.0130 A	0.0154	0.1805	0.1364	0.0086	0.0054	0.0000	0.0000	0.0000	0.0000	0.0087	19
20	0.0196 A	0.0152	0.0121	0.2018	0.1501	0.0092	0.0057	0.0000	0.0000	0.0000	0.0000	0.0078	20
21	0.0183 E	0.0150	0.0153	0.1946	0.1420	0.0121	0.0044	0.0000	0.0000	0.0000	0.0000	0.0079	21
22	0.0182 E	0.0153	0.0161	0.1914	0.1312	0.0112	0.0033	0.0000	0.0000	0.0000	0.0000	0.0081	22
23	0.0180 E	0.0148	0.0153	0.1914	0.1227	0.0095	0.0028	0.0000	0.0000	0.0000	0.0000	0.0077	23
24	0.0178 E	0.0152	0.0157	0.1823	0.1137	0.0079	0.0029	0.0000	0.0000	0.0000	0.0000	0.0079	24
25	0.0176 E	0.0155	0.0158	0.1739	0.1101	0.0088	0.0015	0.0000	0.0000	0.0000	0.0000	0.0078	25
26	0.0176 E	0.0170	0.0158	0.2060	0.1038	0.0111	0.0008	0.0000	0.0000	0.0000	0.0000	0.0079	26
27	0.0176 E	0.0161	0.0150	0.2356	0.0974	0.0108	0.0004	0.0000	0.0000	0.0000	0.0077	0.0073	27
28	0.0174 E	0.0160	0.0169	0.3810	0.0897	0.0096	0.0002	0.0000	0.0000	0.0000	0.0092	0.0071	28
29	0.0173 E		0.0182	0.5251	0.0853	0.0082	0.0001	0.0000	0.0000	0.0000	0.0090	0.0069	29
30	0.0170 E		0.0226	0.5620	0.0777	0.0073	0.0000	0.0000	0.0000	0.0000 E	0.0092	0.0069	30
31	0.0170 E		0.0346		0.0640		0.0000	0.0000		0.0000 E		0.0069	31
TOTAL	0.6429	0.4335	0.5301	7.0605	7.8402	0.5675	0.1573	0.0005	0.0000	0.0000	0.0345	0.2632	TOTAL
MEAN	0.0207	0.0155	0.0171	0.2354	0.2529	0.0189	0.0051	.0000	0.0000	0.0000	0.0012	0.0085	MEAN
MAX	0.0288	0.0170	0.0346	0.5620	0.5929	0.0565	0.0105	0.0002	0.0000	0.0000	0.0092	0.0094	MAX
MIN	0.0170	0.0130	0.0121	0.0584	0.0640	0.0073	0.0000	0.0000	0.0000	0.0000	0.0000	0.0069	MIN

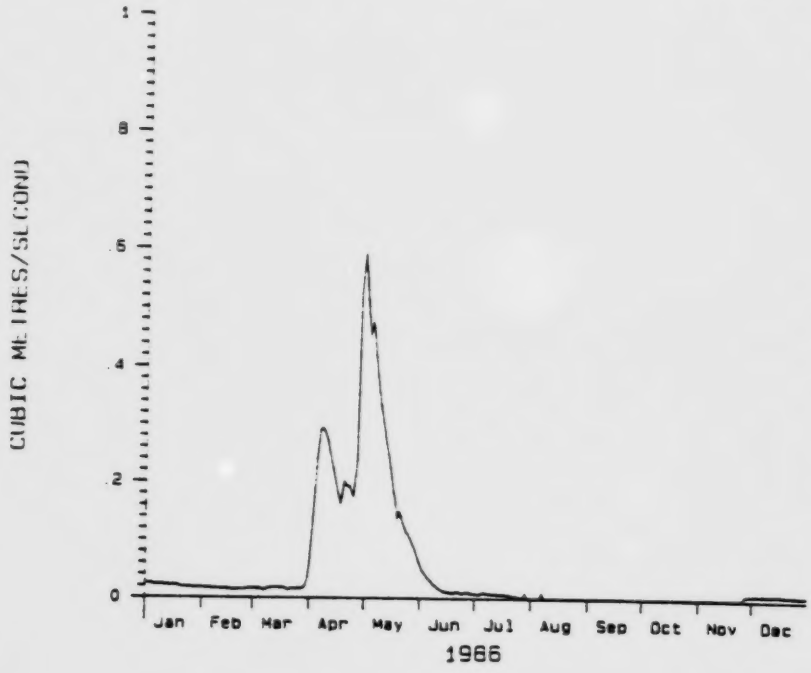
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
55547	37454	45801	610027	677393	49032	13591	43	0	0	2981	22740

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	1514609	CUBIC METRES
MEAN DISCHARGE,	0.0479	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.5929	CUBIC METRES/SEC ON MAY 01
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUL 30
MAX INSTANTANEOUS FLOW,	0.5996	CUBIC METRES/SEC ON MAY 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 240 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0065	0.0077	0.0068	0.1872	0.0580	0.0811	0.0154	0.0038	0.0000	0.0000	0.0000	0.0000	1
2	0.0063	0.0077	0.0073	0.1797	0.0543	0.0815	0.0160	0.0032	0.0000	0.0000	0.0000	0.0000	2
3	0.0067	0.0073	0.0065	0.1709	0.0492	0.0768	0.0146	0.0021	0.0000	0.0000	0.0000	0.0000	3
4	0.0071	0.0072	0.0070	0.1651	0.0459	0.0744	0.0130	0.0003	0.0000	0.0000	0.0000	0.0000	4
5	0.0074	0.0072	0.0070	0.1591	0.0438	0.0705	0.0116	0.0000	0.0000	0.0000	0.0000	0.0000	5
6	0.0073	0.0069	0.0070	0.1591	0.0395	0.0674	0.0105	0.0001	0.0000	0.0000	0.0000	0.0000	6
7	0.0071	0.0049	0.0071	0.1617	0.0373	0.0637	0.0097	0.0000	0.0000	0.0000	0.0000	0.0000	7
8	0.0069	0.0016	0.0052	0.1670	0.0349	0.0563	0.0083	0.0000	0.0000	0.0000	0.0000	0.0000	8
9	0.0060	0.0055	0.0031	0.1708	0.0328	0.0506	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	9
10	0.0060	0.0059	0.0022	0.1710	0.0294	0.0468	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	10
11	0.0060	0.0058	0.0021	0.1698	0.0270	0.0419	0.0060	0.0014	0.0000	0.0000	0.0000	0.0000	11
12	0.0063	0.0063	0.0023	0.1648	0.0229	0.0758	0.0068	0.0030	0.0000	0.0000	0.0000	0.0000	12
13	0.0067	0.0050	0.0024	0.1610	0.0234	0.0754	0.0059	0.0015	0.0000	0.0000	0.0000	0.0000	13
14	0.0066	0.0048	0.0032	0.1650	0.0243	0.0729	0.0046	0.0007	0.0000	0.0000	0.0000	0.0000	14
15	0.0047	0.0045	0.0026	0.1550	0.0224	0.0671	0.0049	0.0010	0.0000	0.0000	0.0000	0.0000	15
16	0.0040	0.0045	0.0036	0.1482	0.0226	0.0647	0.0049	0.0031	0.0000	0.0000	0.0000	0.0000	16
17	0.0042	0.0045	0.0034	0.1426	0.0219	0.0598	0.0064	0.0017	0.0000	0.0000	0.0000	0.0000	17
18	0.0051	0.0045	0.0030	0.1379	0.0187	0.0562	0.0053	0.0009	0.0000	0.0000	0.0000	0.0000	18
19	0.0055	0.0045	0.0034	0.1340	0.0162	0.0524	0.0061	0.0003	0.0000	0.0000	0.0000	0.0000	19
20	0.0057	0.0045	0.0046	0.1254	0.0159	0.0486	0.0065	0.0000	0.0000	0.0000	0.0000	0.0000	20
21	0.0060	0.0044	0.0057	0.1162	0.0310	0.0465	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	21
22	0.0056	0.0045	0.0071	0.1081	0.0359	0.0458	0.0068	0.0000	0.0000	0.0000	0.0000	0.0000	22
23	0.0058	0.0047	0.0117	0.1030	0.0403	0.0419	0.0069	0.0000	0.0000	0.0000	0.0000	0.0000	23
24	0.0056	0.0048	0.0245	0.0945	0.0429	0.0361	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	24
25	0.0054	0.0054	0.0452	0.0887	0.0457	0.0313	0.0054	0.0000	0.0000	0.0000	0.0000	0.0000	25
26	0.0056	0.0059	0.0730	0.0832	0.0576	0.0291	0.0049	0.0000	0.0000	0.0000	0.0000	0.0000	26
27	0.0064	0.0065	0.1074	0.0799	0.0674	0.0255	0.0038	0.0000	0.0000	0.0000	0.0000	0.0000	27
28	0.0065	0.0067	0.1381	0.0742	0.0755	0.0225	0.0026	0.0000	0.0000	0.0000	0.0000	0.0000	28
29	0.0074		0.1559	0.0691	0.0787	0.0193	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	29
30	0.0080		0.1730	0.0609	0.0808	0.0171	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	30
31	0.0081		0.1847		0.0796		0.0027	0.0000		0.0000		0.0000	31
TOTAL	0.1922	0.1527	1.0171	4.0641	1.2767	1.6289	0.2184	0.0231	0.0000	0.0000	0.0000	0.0000	TOTAL
MEAN	0.0062	0.0055	0.0328	0.1355	0.0412	0.0543	0.0070	0.0007	0.0000	0.0000	0.0000	0.0000	MEAN
MAX	0.0081	0.0077	0.1847	0.1872	0.0808	0.0815	0.0160	0.0038	0.0000	0.0000	0.0000	0.0000	MAX
MIN	0.0040	0.0016	0.0021	0.0609	0.0159	0.0171	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	MIN

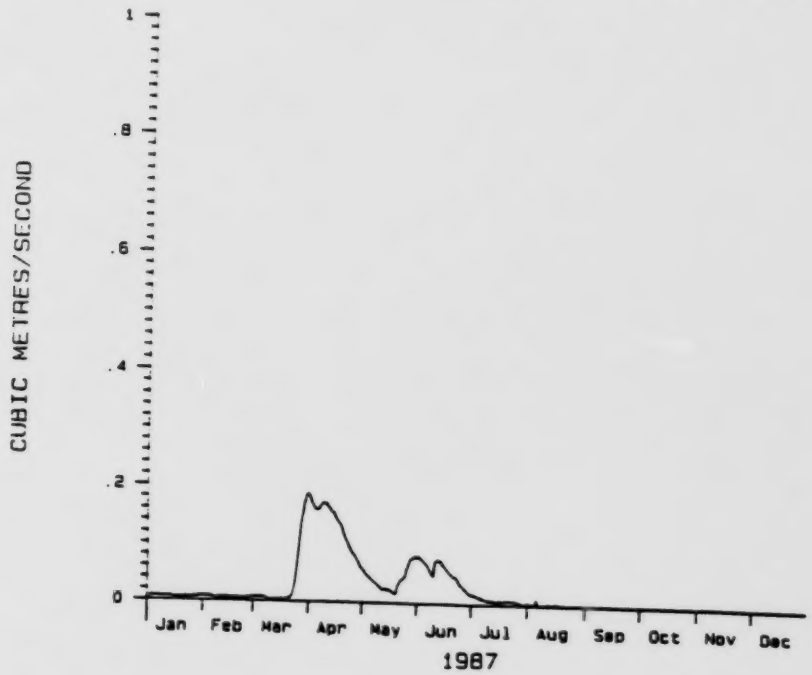
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
16606	13193	87877	351138	110307	140737	18870	1996	0	0	0	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE.	740724	CUBIC METRES
MEAN DISCHARGE.	0.0236	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.1872	CUBIC METRES/SEC ON APR 01
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON AUG 05
MAX INSTANTANEOUS FLOW.	0.1931	CUBIC METRES/SEC ON APR 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 302 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0032 E	----	----	0.0060 E	0.0238	0.0136	0.0037	0.0061	0.0003	0.0011	----	----	1
2	----	----	----	0.0060 E	0.0224	0.0133	0.0050	0.0059	0.0003	0.0028	----	----	2
3	----	----	----	0.0060 E	0.0212	0.0131	0.0262	0.0057	0.0002	0.0043	----	----	3
4	----	----	----	0.0070 E	0.0206	0.0126	0.0382	0.0055	0.0002	0.0058	----	----	4
5	----	----	----	0.0070 E	0.0214	0.0115	0.0389	0.0052	0.0002	0.0071	----	----	5
6	----	----	----	0.0070 A	0.0198	0.0110	0.0383	0.0048	0.0001	0.0048	----	----	6
7	----	----	----	0.0067	0.0191	0.0124	0.0331	0.0044	0.0002	0.0138	----	----	7
8	----	0.0062 A	----	0.0065	0.0177	0.0113	0.0278	0.0040	0.0001	0.0157	----	----	8
9	----	----	----	0.0061	0.0164	0.0119	0.0246	0.0032	0.0001	0.0150 A	----	----	9
10	----	----	----	0.0060	0.0165	0.0152	0.0214	0.0025	0.0001	0.0200 E	----	----	10
11	----	----	0.0024 A	0.0059	0.0163	0.0145	0.0193	0.0021	0.0002	0.0240 E	----	----	11
12	----	----	----	0.0057	0.0159	0.0140	0.0177	0.0017	0.0003	0.0260 E	----	----	12
13	0.0032 B	----	----	0.0057	0.0163	0.0141	0.0165	0.0016	0.0002	0.0240 E	----	----	13
14	----	----	----	0.0045	0.0151	0.0132	0.0146	0.0014	0.0001	0.0210 E	----	0.0097 A	14
15	----	----	----	0.0044	0.0149	0.0125	0.0138	0.0015	0.0001	0.0180 E	----	----	15
16	----	----	----	0.0139	0.0155	0.0125	0.0124	0.0013	0.0001	0.0160 E	----	----	16
17	----	----	----	0.0231	0.0153	0.0125	0.0158	0.0011	0.0001	0.0160 E	----	----	17
18	----	----	----	0.0247	0.0205	0.0116	0.0144	0.0011	0.0000	0.0130 E	----	----	18
19	----	----	----	0.0244	0.0245	0.0108	0.0133	0.0011	0.0001	0.0120 E	----	----	19
20	----	----	----	0.0247	0.0234	0.0105	0.0130	0.0010	0.0000	0.0100 E	----	----	20
21	----	----	----	0.0246	0.0232	0.0101	0.0117	0.0010	0.0001	0.0080 E	----	----	21
22	----	----	----	0.0246	0.0213	0.0096	0.0110	0.0011	0.0001	0.0080 E	----	----	22
23	----	----	----	0.0273	0.0198	0.0088	0.0099	0.0007	0.0001	0.0070 E	----	----	23
24	----	----	----	0.0312	0.0183	0.0083	0.0122	0.0006	0.0001	0.0060 E	----	----	24
25	----	----	----	0.0329	0.0170	0.0074	0.0115	0.0007	0.0001	0.0060 E	----	----	25
26	----	----	----	0.0326	0.0160	0.0069	0.0104	0.0005	0.0001	0.0060 E	----	----	26
27	----	----	----	0.0297	0.0147	0.0059	0.0097	0.0004	0.0001	0.0060 E	----	----	27
28	----	----	----	0.0277	0.0137	0.0052	0.0089	0.0004	0.0006	0.0060 E	----	----	28
29	----		----	0.0265	0.0127	0.0046	0.0085	0.0004	0.0010	0.0060 E	----	----	29
30	----		----	0.0252	0.0121	0.0042	0.0079	0.0004	0.0012	0.0060 E	----	----	30
31	----		----		0.0127		0.0070	0.0002		0.0060 E		0.0080 E	31
TOTAL	----	----	----	0.4836	0.5551	0.3229	0.5146	0.0676	0.0065	0.3414	----	----	TOTAL
MEAN	----	----	----	0.0161	0.0180	0.0108	0.0166	0.0022	0.0002	0.0110	----	----	MEAN
MAX	----	----	----	0.0329	0.0245	0.0152	0.0389	0.0061	0.0012	0.0260	----	----	MAX
MIN	----	----	----	0.0044	0.0121	0.0042	0.0037	0.0002	0.0000	0.0011	----	----	MIN

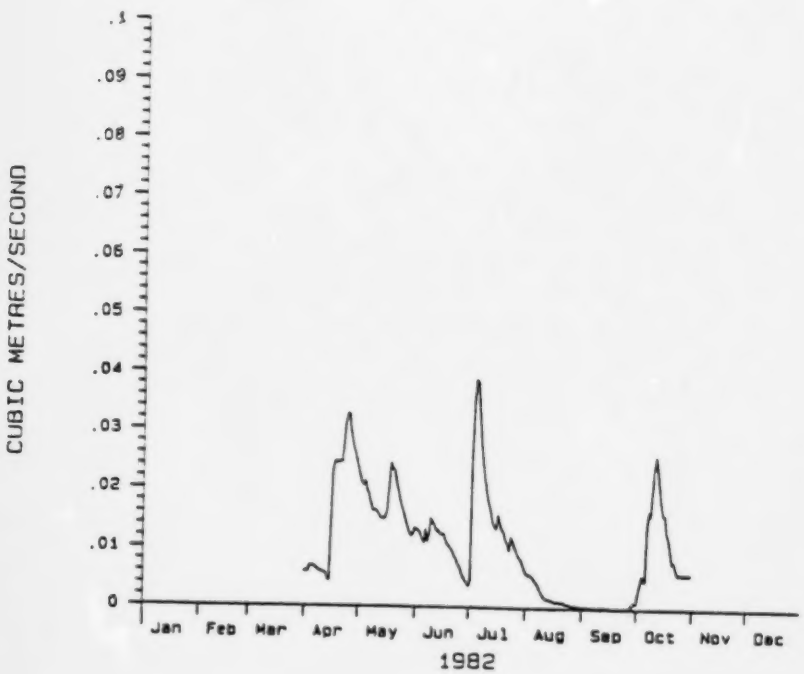
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	41783	48220	27985	44461	5841	562	29497	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	198348	CUBIC METRES		
MEAN DISCHARGE,	0.0107	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.0389	CUBIC METRES/SEC ON	JUL 5	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	AUG 27	
MAX INSTANTANEOUS FLOW,	0.0400	CUBIC METRES/SEC ON	JUL 5	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 302 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0080 E	----	----	0.0041 E	0.0145	0.0067	0.0073	0.0052	0.0004	0.0001	----	----	1
2	----	----	----	0.0042 E	0.0141	0.0059	0.0072	0.0050	0.0004	0.0001	----	----	2
3	----	----	----	0.0043 E	0.0137	0.0060	0.0073	0.0045	0.0002	0.0001	----	----	3
4	----	----	----	0.0044 E	0.0135	0.0068	0.0101	0.0043	0.0001	0.0001 A	----	----	4
5	----	----	----	0.0044 E	0.0127	0.0069	0.0109	0.0042	0.0002	0.0003 E	----	----	5
6	----	----	----	0.0044 A	0.0119	0.0063	0.0101	0.0042	0.0004	0.0002 E	----	----	6
7	----	----	----	0.0047	0.0108	0.0058	0.0099	0.0042	0.0003	0.0002 E	----	----	7
8	----	----	----	0.0050	0.0101	0.0048	0.0095	0.0036	0.0002	0.0001 E	----	----	8
9	----	----	----	0.0052	0.0090	0.0043	0.0077	0.0030	0.0003	0.0001 E	----	----	9
10	----	----	----	0.0060	0.0088	0.0037	0.0064	0.0027	0.0002	0.0001 E	----	----	10
11	0.0062 A	----	----	0.0070	0.0090	0.0027	0.0056	0.0023	0.0002	0.0001 E	----	----	11
12	----	----	----	0.0083	0.0096	0.0021	0.0054	0.0020	0.0001	0.0002 E	----	----	12
13	----	----	----	0.0100	0.0121	0.0021	0.0052	0.0015	0.0001	0.0001 E	----	0.0014 A	13
14	----	0.0032 A	0.0037 A	0.0104	0.0124	0.0021	0.0051	0.0015	0.0001	0.0001 E	----	----	14
15	----	----	----	0.0102	0.0125	0.0022	0.0053	0.0013	0.0000	0.0001 E	----	----	15
16	----	----	----	0.0102	0.0125	0.0035	0.0050	0.0010	0.0000	0.0001 E	----	----	16
17	----	----	----	0.0099	0.0120	0.0049	0.0053	0.0008	0.0001	0.0001 E	----	----	17
18	----	----	----	0.0096	0.0121	0.0054	0.0054	0.0010	0.0001	0.0001 E	----	----	18
19	----	----	----	0.0098	0.0115	0.0048	0.0051	0.0009	0.0000	0.0001 E	----	----	19
20	----	----	----	0.0098	0.0107	0.0110	0.0051	0.0006	0.0000	0.0001 E	----	----	20
21	----	----	----	0.0105	0.0104	0.0124	0.0049	0.0010	0.0000	0.0000 E	----	----	21
22	----	----	----	0.0123	0.0110	0.0145	0.0045	0.0011	0.0000	0.0000 E	----	----	22
23	----	----	----	0.0128	0.0110	0.0153	0.0044	0.0010	0.0000	0.0000 E	----	----	23
24	----	----	----	0.0133	0.0109	0.0137	0.0044	0.0010	0.0000	0.0000 E	----	----	24
25	----	----	----	0.0135	0.0101	0.0124	0.0046	0.0008 A	0.0000	0.0001 E	----	----	25
26	----	----	----	0.0137	0.0094	0.0106	0.0044	0.0008 E	0.0000	0.0000 E	----	----	26
27	----	----	0.0022 A	0.0143	0.0084	0.0099	0.0041	0.0007 E	0.0000	0.0000 E	----	----	27
28	----	----	----	0.0142	0.0079	0.0093	0.0043	0.0007 E	0.0000	0.0000 E	----	----	28
29	----		----	0.0150	0.0077	0.0080	0.0045	0.0006 E	0.0000	0.0000 E	----	----	29
30	----		----	0.0153	0.0075	0.0071	0.0042	0.0006 A	0.0000	0.0000 E	----	----	30
31	----		----		0.0071		0.0050	0.0005		0.0000 E		----	31
TOTAL	----	----	----	0.2758	0.3349	0.2112	0.1882	0.0626	0.0034	0.0026	----	----	TOTAL
MEAN	----	----	----	0.0092	0.0108	0.0070	0.0061	0.0020	0.0001	0.0001	----	----	MEAN
MAX	----	----	----	0.0153	0.0145	0.0153	0.0109	0.0052	0.0004	0.0003	----	----	MAX
MIN	----	----	----	0.0041	0.0071	0.0021	0.0041	0.0005	0.0000	0.0000	----	----	MIN

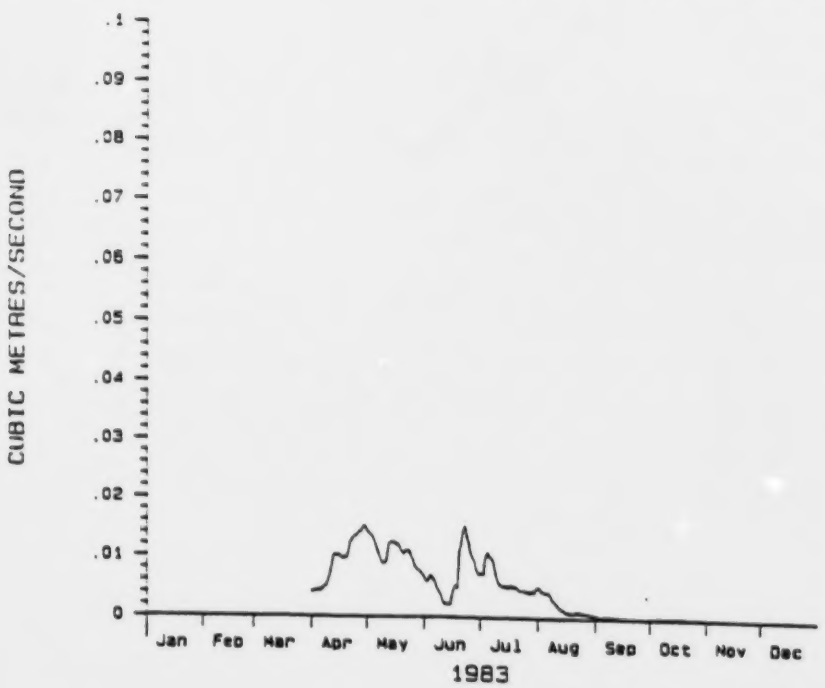
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	23916	28935	18248	16260	5409	294	225	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	93286	CUBIC METRES	
MEAN DISCHARGE.	0.0051	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.0153	CUBIC METRES/SEC ON	APR 30
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON	SEP 15
MAX INSTANTANEOUS FLOW.	0.0158	CUBIC METRES/SEC ON	JUN 23

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 302 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0000 E	0.0099	0.0054	0.0094	0.0003	0.0000	0.0000	----	----	1
2	----	----	----	0.0000 E	0.0097	0.0044	0.0087	0.0003	0.0000	0.0000	----	----	2
3	----	----	----	0.0000 A	0.0091	0.0028	0.0083	0.0003	0.0000	0.0000	----	----	3
4	----	----	----	0.0000	0.0083	0.0021	0.0077	0.0003	0.0000	0.0000	----	----	4
5	----	----	----	0.0000	0.0076	0.0042	0.0072	0.0001	0.0000	0.0000	----	----	5
6	----	----	0.0012 A	0.0001	0.0071	0.0043	0.0066	0.0001	0.0000	0.0000	----	----	6
7	----	0.0015 A	----	0.0069	0.0077	0.0023	0.0061	0.0001	0.0000	0.0000	----	----	7
8	----	----	----	0.0122	0.0080	0.0008	0.0057	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0140	0.0082	0.0010	0.0053	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0158	0.0084	0.0009	0.0047	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0165 A	0.0087	0.0004	0.0044	0.0000	0.0000	0.0000	----	0.0046 A	11
12	----	----	----	0.0175 E	0.0087	0.0006	0.0039	0.0000	0.0000	0.0000	----	----	12
13	----	----	----	0.0184 A	0.0088	0.0020	0.0044	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0177	0.0090	0.0032	0.0053	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0175	0.0089	0.0190	0.0047	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0174	0.0079	0.0189	0.0042	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0167	0.0082	0.0185	0.0034	0.0000	0.0000	0.0002	----	----	17
18	----	----	----	0.0159	0.0081	0.0178	0.0030	0.0000	0.0000	0.0004	----	----	18
19	----	----	----	0.0147	0.0078	0.0168	0.0023	0.0000	0.0000	0.0016	----	----	19
20	----	----	----	0.0142	0.0078	0.0156	0.0019	0.0000	0.0000	0.0056	----	----	20
21	----	----	----	0.0132	0.0079	0.0147	0.0018	0.0000	0.0000	0.0088	----	----	21
22	----	----	----	0.0123	0.0077	0.0150	0.0016	0.0000	0.0000	0.0117	----	----	22
23	----	----	----	0.0120	0.0077	0.0140	0.0015	0.0000	0.0000	0.0114	----	----	23
24	----	----	----	0.0110	0.0077	0.0127	0.0011	0.0000	0.0000	0.0113	----	----	24
25	----	----	----	0.0107	0.0074	0.0120	0.0008	0.0000	0.0000	0.0109	----	----	25
26	----	----	----	0.0105	0.0073	0.0116	0.0006	0.0000	0.0000	0.0102	----	----	26
27	----	----	----	0.0108	0.0066	0.0120	0.0003	0.0000	0.0000	0.0100	----	----	27
28	----	----	----	0.0117	0.0067	0.0113	0.0003	0.0000	0.0000	0.0099	----	----	28
29	----		----	0.0110	0.0062	0.0107	0.0002	0.0000	0.0000	0.0091	0.0111 A	----	29
30	----		----	0.0102	0.0063	0.0099	0.0003	0.0000	0.0000	0.0085	----	----	30
31	----		----		0.0060		0.0004	0.0000		0.0084 A		0.0038 E	31
TOTAL	----	----	----	0.3289	0.2454	0.2789	0.1161	0.0015	0.0000	0.1180	----	----	TOTAL
MEAN	----	----	----	0.0110	0.0079	0.0093	0.0037	.0000	0.0000	0.0038	----	----	MEAN
MAX	----	----	----	0.0184	0.0099	0.0190	0.0094	0.0003	0.0000	0.0117	----	----	MAX
MIN	----	----	----	0.0000	0.0060	0.0004	0.0002	0.0000	0.0000	0.0000	----	----	MIN

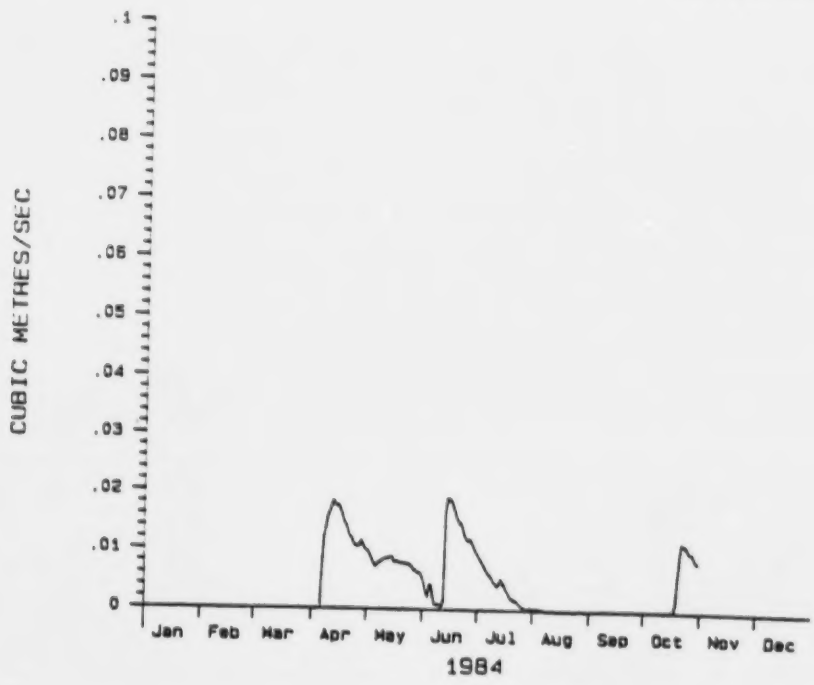
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	28417	21203	24097	10031	130	0	10195	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	94072	CUBIC METRES
MEAN DISCHARGE,	0.0051	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0190	CUBIC METRES/SEC ON JUN 15
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 8
MAX INSTANTANEOUS FLOW,	0.0206	CUBIC METRES/SEC ON JUN 14

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE JOE OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0038 E	—	—	0.0024 E	0.0383	0.0173	0.0179	0.0097	0.0120	0.0127	0.0081	—	1
2	—	—	—	0.0026	0.0353	0.0161	0.0177	0.0092	0.0122	0.0122	0.0079	—	2
3	—	—	—	0.0027	0.0310	0.0148	0.0171	0.0088	0.0125	0.0119	0.0078	—	3
4	—	—	—	0.0027	0.0319	0.0143	0.0160	0.0097	0.0117	0.0117	0.0079	—	4
5	—	—	—	0.0027	0.0327	0.0134	0.0156	0.0097	0.0160	0.0112	0.0073	—	5
6	—	—	—	0.0028	0.0319	0.0125	0.0146	0.0097	0.0116	0.0109	—	—	6
7	—	—	—	0.0027	0.0355	0.0120	0.0139	0.0094	0.0111	0.0107	—	—	7
8	—	—	—	0.0028 E	0.0340	0.0114	0.0128	0.0093	0.0109	0.0114	—	—	8
9	—	—	—	0.0028 E	0.0316	0.0105	0.0108	0.0091	0.0102	0.0114	—	0.0049 A	9
10	—	—	—	0.0024	0.0287	0.0096	0.0098	0.0117	0.0098	0.0112	—	—	10
11	—	—	—	0.0026	0.0296	0.0088	0.0094	0.0115	0.0097	0.0114	—	—	11
12	—	—	—	0.0024	0.0267	0.0080	0.0074	0.0117	0.0086	0.0114	—	—	12
13	—	—	—	0.0028	0.0488	0.0082	0.0071	0.0074	0.0097	0.0115	—	—	13
14	—	—	—	0.0029 E	0.0467	0.0075	0.0067	0.0044	0.0071	0.0117	—	—	14
15	—	—	—	0.0047 E	0.0463	0.0074	0.0061	0.0044	0.0067	0.0117	—	—	15
16	—	—	—	0.0062	0.0589	0.0095	0.0067	0.0044	0.0060	0.0117	—	—	16
17	—	—	—	0.0061	0.0564	0.0095	0.0048	0.0116	0.0062	0.0120	—	—	17
18	—	—	—	0.0070	0.0508	0.0096	0.0074	0.0117	0.0059	0.0122	—	—	18
19	—	0.0017 A	0.0017 A	0.0075	0.0452	0.0088	0.0034	0.0186	0.0112	0.0119	—	—	19
20	—	—	—	0.0079	0.0400	0.0080	0.0080	0.0186	0.0199	0.0114	—	—	20
21	—	—	—	0.0127	0.0752	0.0080	0.0070	0.0177	0.0203	0.0111	—	—	21
22	0.0030 A	—	—	0.0454	0.0513	0.0144	0.0065	0.0182	0.0192	0.0102	—	—	22
23	—	—	—	0.0655	0.0290	0.0158	0.0068	0.0190	0.0182	0.0100	—	—	23
24	—	—	—	0.0729	0.0263	0.0156	0.0077	0.0186	0.0163	0.0099	—	—	24
25	—	—	—	0.0719	0.0243	0.0156	0.0075	0.0175	0.0158	0.0096	—	—	25
26	—	—	—	0.0659	0.0224	0.0158	0.0069	0.0169	0.0150	0.0096	—	—	26
27	—	—	—	0.0589	0.0208	0.0161	0.0066	0.0161	0.0139	0.0092	—	—	27
28	—	—	—	0.0528	0.0194	0.0177	0.0058	0.0150	0.0139	0.0092	—	—	28
29	—	—	—	0.0474	0.0186	0.0182	0.0054	0.0143	0.0139	0.0088	0.0078 A	—	29
30	—	—	—	0.0417	0.0182	0.0184	0.0047	0.0134	0.0134	0.0084	—	—	30
31	—		—		0.0179		0.0043	0.0125		0.0081		0.0040 E	31
TOTAL	—	—	—	0.6125	1.0578	0.7719	0.2958	0.2971	0.3662	0.3362	—	—	TOTAL
MEAN	—	—	—	0.0204	0.0340	0.0124	0.0092	0.0096	0.0122	0.0108	—	—	MEAN
MAX	—	—	—	0.0729	0.0589	0.0184	0.0179	0.0190	0.0203	0.0127	—	—	MAX
MIN	—	—	—	0.0024	0.0179	0.0074	0.0043	0.0015	0.0059	0.0081	—	—	MIN

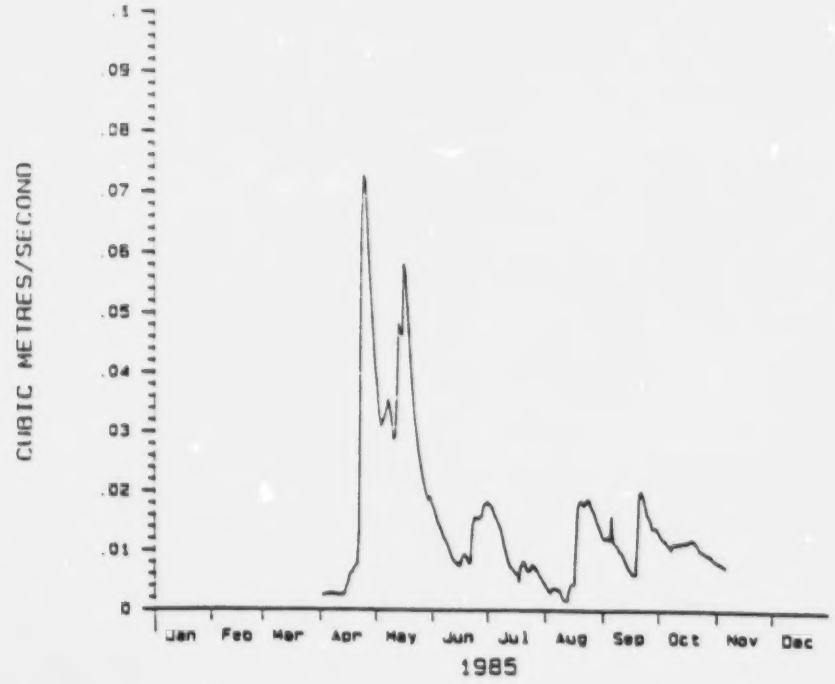
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	52920	91048	32132	24693	25669	31640	29048	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	287150	CUBIC METRES
MEAN DISCHARGE,	0.0155	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0729	CUBIC METRES/SEC ON APR 24
MIN DAILY DISCHARGE,	0.0015	CUBIC METRES/SEC ON AUG 11
MAX INSTANTANEOUS FLOW,	0.0743	CUBIC METRES/SEC ON APR 25

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE YOZ OUTFLOW

DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0040 E	—	—	0.0089	0.0634	0.0065	0.0005	0.0008	0.0000	0.0028	0.0007 E	—	1
2	—	—	—	0.0106	0.0587	0.0056	0.0002	0.0007	0.0002	0.0033	0.0007 E	—	2
3	—	—	—	0.0114	0.0525	0.0047	0.0002	0.0006	0.0027	0.0035	0.0006 A	—	3
4	—	—	—	0.0121	0.0448	0.0041	0.0002	0.0007	0.0045	0.0033	—	—	4
5	—	—	0.0068 A	0.0126	0.0405	0.0037	0.0021	0.0007	0.0046	0.0031	—	—	5
6	—	—	—	0.0145	0.0482	0.0029	0.0028	0.0006	0.0043	0.0028	—	—	6
7	—	—	—	0.0156	0.0412	0.0027	0.0024	0.0006	0.0040	0.0029	—	—	7
8	—	—	—	0.0161	0.0380	0.0023	0.0020	0.0007	0.0034	0.0029	—	—	8
9	—	—	—	0.0161	0.0348	0.0020	0.0017	0.0006	0.0031	0.0026	—	0.0035 A	9
10	—	—	—	0.0162	0.0304	0.0017	0.0015	0.0005	0.0028	0.0023	—	—	10
11	—	—	—	0.0150	0.0274	0.0013	0.0018	0.0004	0.0025	0.0023	—	—	11
12	—	—	—	0.0158	0.0252	0.0010	0.0019	0.0004	0.0027	0.0022	—	—	12
13	—	—	—	0.0154	0.0224	0.0006	0.0019	0.0003	0.0026	0.0021	—	—	13
14	—	—	—	0.0150	0.0204	0.0003	0.0017	0.0002	0.0024	0.0020	—	—	14
15	—	—	—	0.0145	0.0191	0.0003	0.0017	0.0003	0.0022	0.0018	—	—	15
16	—	—	—	0.0142	0.0165	0.0003	0.0015	0.0006	0.0017	0.0017	—	—	16
17	—	0.0016 A	—	0.0134	0.0163	0.0002	0.0014	0.0004	0.0018	0.0017	—	—	17
18	—	—	—	0.0137	0.0144	0.0001	0.0015	0.0001	0.0020	0.0016 E	—	—	18
19	—	—	—	0.0144	0.0134	0.0001	0.0019	0.0005	0.0020	0.0016 E	—	—	19
20	—	—	—	0.0166	0.0127	0.0002	0.0015	0.0006	0.0019	0.0016 E	—	—	20
21	0.0020 A	—	—	0.0171	0.0119	0.0003	0.0014	0.0004	0.0020	0.0015 E	—	—	21
22	—	—	—	0.0172	0.0113	0.0004	0.0012	0.0003	0.0026	0.0014 E	—	—	22
23	—	—	—	0.0168	0.0114	0.0002	0.0011	0.0003	0.0027	0.0014 E	—	—	23
24	—	—	0.0045 A	0.0165	0.0108	0.0002	0.0011	0.0002	0.0026	0.0013 E	—	—	24
25	—	—	—	0.0161	0.0103	0.0006	0.0010	0.0002	0.0028	0.0012 E	0.0053 A	—	25
26	—	—	0.0046	0.0198	0.0102	0.0009	0.0008	0.0002	0.0028	0.0012 E	—	—	26
27	—	—	0.0043	0.0211	0.0099	0.0010	0.0009	0.0001	0.0030	0.0011 E	—	—	27
28	—	—	0.0046	0.0218	0.0091	0.0007	0.0010	0.0001	0.0031	0.0009 E	—	—	28
29	—	—	0.0049	0.0247	0.0084	0.0004	0.0011	0.0000	0.0029	0.0009 E	—	—	29
30	—	—	0.0057	0.0254	0.0076	0.0002	0.0011	0.0000	0.0029	0.0009 E	—	—	30
31	—	—	0.0071		0.0072		0.0009	0.0000		0.0008 E		0.0034 E	31
TOTAL	—	—	—	0.4546	0.7557	0.0456	0.0412	0.0123	0.0789	0.0607	—	—	TOTAL
MEAN	—	—	—	0.0152	0.0244	0.0015	0.0013	0.0004	0.0026	0.0020	—	—	MEAN
MAX	—	—	—	0.0254	0.0634	0.0065	0.0028	0.0008	0.0046	0.0035	—	—	MAX
MIN	—	—	—	0.0089	0.0072	0.0001	0.0002	0.0000	0.0000	0.0008	—	—	MIN

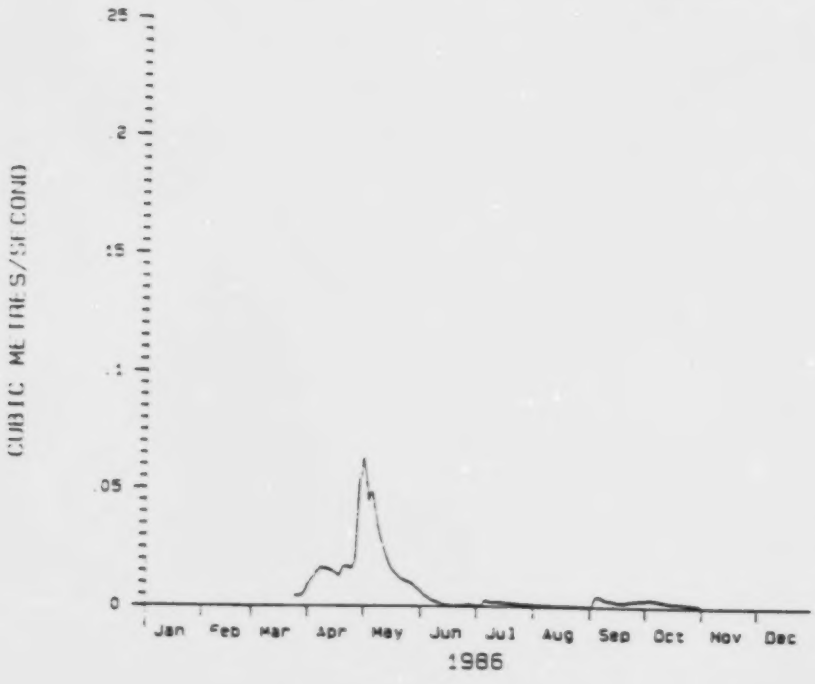
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	47935	65292	3940	3560	1063	6817	5244	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	17581	CUBIC METRES
MEAN DISCHARGE,	0.0072	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0634	CUBIC METRES/SEC ON MAY 01
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 29
MAX INSTANTANEOUS FLOW,	0.0643	CUBIC METRES/SEC ON MAY 01

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 302 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0034 E	----	0.0033 E	0.0176	0.0046	0.0011	0.0022	0.0017	0.0005	0.0002	0.0002	----	1
2	----	----	0.0034 E	0.0162	0.0043	0.0022	0.0023	0.0016	0.0007	0.0002	0.0002 A	----	2
3	----	----	0.0034 E	0.0150	0.0040	0.0039	0.0022	0.0015	0.0006	0.0002	----	----	3
4	----	----	0.0035 E	0.0139	0.0038	0.0045	0.0022	0.0013	0.0005	0.0002	----	----	4
5	----	----	0.0035 A	0.0131	0.0037	0.0043	0.0022	0.0012	0.0004	0.0002	----	----	5
6	----	----	0.0035 E	0.0132	0.0036	0.0044	0.0022	0.0010	0.0004	0.0002	----	----	6
7	----	----	0.0035 E	0.0136	0.0037	0.0042	0.0023	0.0010	0.0004	0.0002	----	----	7
8	----	----	0.0035 E	0.0145	0.0036	0.0037	0.0023	0.0010	0.0004	0.0002	----	----	8
9	----	----	0.0035 E	0.0154	0.0032	0.0026	0.0023	0.0010	0.0004	0.0002	----	----	9
10	----	----	0.0035 E	0.0156	0.0028	0.0032	0.0021	0.0008	0.0005	0.0002	----	----	10
11	----	----	0.0035 E	0.0154	0.0025	0.0059	0.0020	0.0008	0.0004	0.0002	----	----	11
12	----	----	0.0035 E	0.0154	0.0022	0.0068	0.0020	0.0014	0.0004	0.0002	----	----	12
13	----	----	0.0035 E	0.0155	0.0024	0.0059	0.0020	0.0014	0.0004	0.0001	----	----	13
14	----	----	0.0035 E	0.0150	0.0030	0.0052	0.0019	0.0012	0.0004	0.0002	----	----	14
15	----	----	0.0035 E	0.0141	0.0026	0.0045	0.0020	0.0011	0.0004	0.0001	----	----	15
16	----	0.0024 A	0.0035 E	0.0147	0.0027	0.0042 E	0.0017	0.0014	0.0003	0.0001	----	0.0000 A	16
17	----	----	0.0035 E	0.0141	0.0027	0.0038 E	0.0016	0.0015	0.0003	0.0001	----	----	17
18	----	----	0.0035 E	0.0134	0.0024	0.0035 E	0.0015	0.0014	0.0004	0.0002	----	----	18
19	----	----	0.0035 E	0.0127	0.0021	0.0032 E	0.0016	0.0012	0.0004	0.0002	----	----	19
20	0.0033 A	----	0.0035 E	0.0119	0.0015	0.0029 E	0.0016	0.0010	0.0003	0.0002	----	----	20
21	----	----	0.0035 E	0.0116	0.0020	0.0027 E	0.0015	0.0008	0.0003	0.0002	----	----	21
22	----	----	0.0035 E	0.0112	0.0026	0.0027 E	0.0015	0.0008	0.0003	0.0002	----	----	22
23	----	----	0.0095 E	0.0102	0.0026	0.0027	0.0015	0.0008	0.0003	0.0001	----	----	23
24	----	----	0.0154 A	0.0095	0.0022	0.0026	0.0015	0.0007	0.0003	0.0001	----	----	24
25	----	----	0.0165	0.0087	0.0010	0.0023	0.0014	0.0007	0.0003	0.0002	----	----	25
26	----	----	0.0180	0.0082	0.0006	0.0025	0.0015	0.0007	0.0003	0.0003	----	----	26
27	----	----	0.0185	0.0073	0.0004	0.0025	0.0015	0.0007	0.0003	0.0002	----	----	27
28	----	----	0.0190	0.0066	0.0003	0.0024	0.0015	0.0007	0.0002	0.0002	----	----	28
29	----		0.0189	0.0056	0.0002	0.0023	0.0015	0.0006	0.0002	0.0002	----	----	29
30	----		0.0186	0.0051	0.0002	0.0023	0.0014	0.0006	0.0002	0.0002	----	----	30
31	----		0.0181		0.0005		0.0016	0.0005		0.0002		0.0000 E	31
TOTAL	----	----	0.2291	0.3743	0.0740	0.1059	0.0566	0.0321	0.0112	0.0057	----	----	TOTAL
MEAN	----	----	0.0074	0.0125	0.0024	0.0035	0.0018	0.0010	0.0004	0.0002	----	----	MEAN
MAX	----	----	0.0190	0.0176	0.0046	0.0068	0.0023	0.0017	0.0007	0.0003	----	----	MAX
MIN	----	----	0.0033	0.0051	0.0002	0.0011	0.0014	0.0005	0.0002	0.0001	----	----	MIN

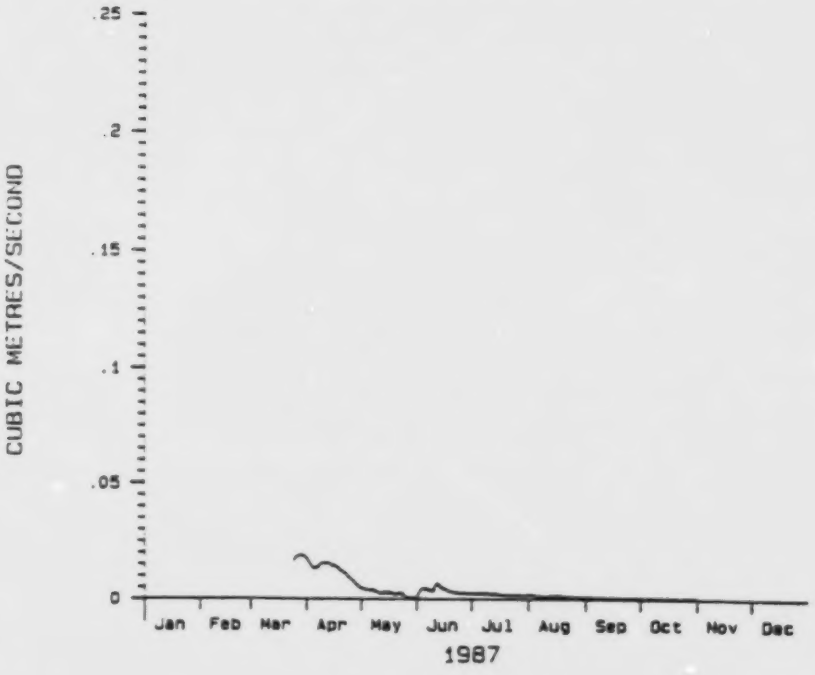
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	19794	32340	6394	9150	4890	2773	968	492	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	76801	CUBIC METRES	
MEAN DISCHARGE.	0.0037	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.0190	CUBIC METRES/SEC	ON MAR 28
MIN DAILY DISCHARGE.	0.0001	CUBIC METRES/SEC	ON OCT 13
MAX INSTANTANEOUS FLOW.	0.0193	CUBIC METRES/SEC	ON MAR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 'OR UPLAND WATERSHED
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	—	—	—	—	—					
2	—	—	—	—	—	—	—	—	0.0000	0.0004	0.0001	—	1
3	—	—	—	—	—	—	—	—	0.0006	0.0010	0.0001	—	2
4	—	—	—	—	—	—	—	—	0.0217	0.0019	0.0001 A	—	3
5	—	—	—	—	—	—	—	—	0.0047	0.0009	—	—	4
6	—	—	—	—	—	—	—	—	0.0018	0.0006	—	—	5
7	—	—	—	—	—	—	—	—	0.0009	0.0004	—	—	6
8	—	—	—	—	—	—	—	—	0.0005	0.0005	—	—	7
9	—	—	—	—	—	—	—	—	0.0003	0.0006	—	—	8
10	—	—	—	—	—	—	—	—	0.0002	0.0004	—	0.0001 A	9
11	—	—	—	—	—	—	—	—	0.0001	0.0003	—	—	10
12	—	—	—	—	—	—	—	—	0.0001	0.0003	—	—	11
13	—	—	—	—	—	—	—	—	0.0001	0.0004	—	—	12
14	—	—	—	—	—	—	—	—	0.0001	0.0003	—	—	13
15	—	—	—	—	—	—	—	—	0.0001	0.0003	—	—	14
16	—	—	—	—	—	—	—	—	0.0001	0.0002	—	—	15
17	—	—	—	—	—	—	—	—	0.0000	0.0002	—	—	16
18	—	—	—	—	—	—	—	—	0.0001	0.0002	—	—	17
19	—	—	—	—	—	—	—	—	0.0004	0.0002	—	—	18
20	—	—	—	—	—	—	—	0.0000 A	0.0004	0.0001	—	—	19
21	—	—	—	—	—	—	—	0.0002	0.0003	0.0001	—	—	20
22	—	—	—	—	—	—	—	0.0000	0.0002	0.0001			
23	—	—	—	—	—	—	—	0.0000	0.0011	0.0001	—	—	21
24	—	—	—	—	—	—	—	0.0000	0.0013	0.0002	—	—	22
25	—	—	—	—	—	—	—	0.0000	0.0007	0.0002	—	—	23
26	—	—	—	—	—	—	—	0.0000	0.0007	0.0002	—	—	24
27	—	—	—	—	—	—	—	0.0000	0.0011	0.0002	0.0005 A	—	25
28	—	—	—	—	—	—	—	0.0000	0.0015	0.0001	—	—	26
29	—	—	—	—	—	—	—	0.0000	0.0017	0.0001	—	—	27
30	—	—	—	—	—	—	—	0.0000	0.0010	0.0001	—	—	28
31	—	—	—	—	—	—	—	0.0000	0.0006	0.0000	—	—	29
								0.0000		0.0001		0.0001 E	30
TOTAL	—	—	—	—	—	—	—	—	0.0423	0.0109	—	—	31
MEAN	—	—	—	—	—	—	—	—	0.0014	0.0004	—	—	TOTAL
MAX	—	—	—	—	—	—	—	—	0.0217	0.0019	—	—	MEAN
MIN	—	—	—	—	—	—	—	—	0.0000	0.0000	—	—	MAX
													MIN

MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	—	—	—	—	—	3652	939	—	—

SUMMARY FOR THE MONTHS SEPTEMBER TO OCTOBER

TOTAL DISCHARGE,	4591	CUBIC METRES	
MEAN DISCHARGE,	0.0009	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0217	CUBIC METRES/SEC	ON SEP 03
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON AUG 21
MAX INSTANTANEOUS FLOW,	0.0535	CUBIC METRES/SEC	ON SEP 03

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE

LAKE 302 UPLAND WATERSHED
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0001 E	----	----	0.0004	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000	0.0001	----	1
2	----	----	----	0.0003	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0001 A	----	2
3	----	----	----	0.0002	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	3
4	----	----	----	0.0002	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0008	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	5
6	----	----	----	0.0028	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.0033	0.0001	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	7
8	----	----	----	0.0029	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0024	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0018	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0011	0.0000	0.0082	0.0000	0.0065	0.0000	0.0000	----	----	11
12	----	----	----	0.0009	0.0000	0.0023	0.0000	0.0079	0.0000	0.0000	----	----	12
13	----	----	----	0.0007	0.0001	0.0008	0.0000	0.0020	0.0000	0.0000	----	----	13
14	----	----	----	0.0005	0.0001	0.0003	0.0000	0.0008	0.0000	0.0000	----	----	14
15	----	----	----	0.0004	0.0001	0.0001	0.0000	0.0017	0.0000	0.0000	----	----	15
16	----	0.0000 A	----	0.0003	0.0001	0.0001	0.0000	0.0071	0.0000	0.0000	----	0.0000 A	16
17	----	----	----	0.0003	0.0001	0.0000	0.0000	0.0021	0.0000	0.0000	----	----	17
18	----	----	----	0.0002	0.0001	0.0001	0.0000	0.0012	0.0000	0.0000	----	----	18
19	----	----	----	0.0002	0.0001	0.0000	0.0000	0.0006	0.0000	0.0000	----	----	19
20	0.0001 A	----	----	0.0002	0.0001	0.0000	0.0000	0.0003	0.0000	0.0000	----	----	20
21	----	----	----	0.0001	0.0089	0.0000	0.0000	0.0002	0.0000	0.0000	----	----	21
22	----	----	----	0.0001	0.0051	0.0000	0.0000	0.0002	0.0000	0.0000	----	----	22
23	----	----	----	0.0001	0.0017	0.0000	0.0000	0.0001	0.0000	0.0000	----	----	23
24	----	----	0.0057 A	0.0001	0.0008	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001 A	----	24
25	----	----	0.0045	0.0001	0.0004	0.0000	0.0000	0.0001	0.0000	0.0000	----	----	25
26	----	----	0.0029	0.0001	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0021	0.0001	0.0018	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	27
28	----	----	0.0018	0.0001	0.0010	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	28
29	----		0.0015	0.0001	0.0005	0.0000	0.0000	0.0000	0.0000	0.0001	----	----	29
30	----		0.0010	0.0001	0.0003	0.0000	0.0000	0.0001	0.0000	0.0001	----	----	30
31	----		0.0005		0.0001		0.0000	0.0000		0.0001		0.0000 E	31
TOTAL	----	----	----	0.0209	0.0236	0.0140	0.0000	0.0311	0.0000	0.0005	----	----	TOTAL
MEAN	----	----	----	0.0007	0.0008	0.0005	0.0000	0.0010	0.0000	0.0000	----	----	MEAN
MAX	----	----	----	0.0033	0.0089	0.0082	0.0000	0.0079	0.0000	0.0001	----	----	MAX
MIN	----	----	----	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	----	----	MIN

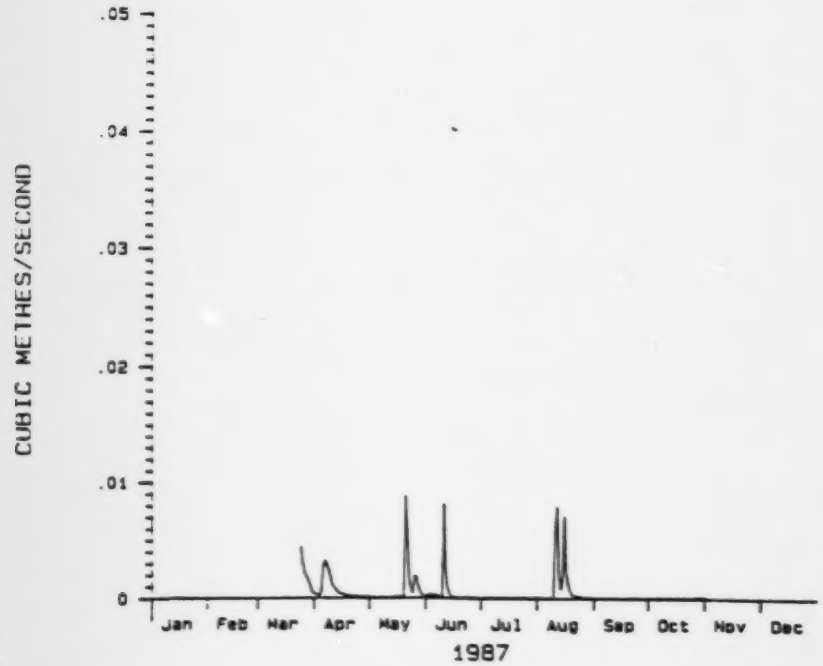
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	1806	2039	1210	0	2687	0	43	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	7785	CUBIC METRES
MEAN DISCHARGE.	0.0004	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0089	CUBIC METRES/SEC ON MAY 21
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON MAY 02
MAX INSTANTANEOUS FLOW.	0.0231	CUBIC METRES/SEC ON AUG 11

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE ICE
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	27.434 B	27.593	27.574	27.487	27.512	27.449	27.477	—	—	1
2	—	—	—	27.437 B	27.591	27.570	27.501	27.511	27.447	27.491	—	—	2
3	—	—	—	27.439 B	27.584	27.565	27.616	27.510	27.448	27.499	—	—	3
4	—	—	—	27.441 B	27.584	27.559	27.639	27.506	27.447	27.505	—	—	4
5	—	—	—	27.442 B	27.584	27.552	27.644	27.505	27.442	27.504	—	—	5
6	—	—	—	27.443 A	27.582	27.552	27.643	27.499	27.443	27.506	—	—	6
7	—	—	—	27.443	27.578	27.560	27.633	27.495	27.438	27.547	—	—	7
8	—	—	—	27.437	27.571	27.556	27.620	27.492	27.436	27.558	—	—	8
9	—	—	—	27.435	27.569	27.564	27.611	27.486	27.439	27.561	—	—	9
10	—	—	—	27.435	27.565	27.577	27.601	27.478	27.438	27.576	—	—	10
11	—	—	—	27.431	27.566	27.577	27.595	27.474	27.438	27.592	—	—	11
12	—	—	—	27.434	27.563	27.576	27.588	27.468	27.440	27.593	—	—	12
13	—	—	—	27.435	27.558	27.570	27.583	27.470	27.443	27.591	—	—	13
14	—	—	—	27.436	27.556	27.569	27.576	27.468	27.439	27.586	—	—	14
15	—	—	—	27.436	27.559	27.565	27.571	27.467	27.435	27.582	—	—	15
16	—	—	—	27.[illegible]	27.563	27.562	27.567	27.463	27.431	27.574	—	—	16
17	—	—	—	27.569	27.569	27.557	27.579	27.462	27.429	27.572	—	—	17
18	—	—	—	27.[illegible]	27.589	27.551	27.570	27.459	27.428	27.571	—	—	18
19	—	—	—	27.581	27.608	27.543	27.563	27.459	27.427	27.566	—	—	19
20	—	—	—	27.581	27.613	27.542	27.558	27.457	27.426	27.562	—	—	20
21	—	—	—	27.580	27.603	27.539	27.552	27.458	27.419	27.558	—	—	21
22	—	—	—	27.585	27.600	27.532	27.544	27.459	27.420	27.551	—	—	22
23	—	—	—	27.596	27.595	27.530	27.540	27.457	27.430	27.551	—	—	23
24	—	—	—	27.609	27.588	27.526	27.554	27.454	27.434	27.548	—	—	24
25	—	—	—	27.618	27.583	27.522	27.549	27.453	27.429	27.546	—	—	25
26	—	—	—	27.619	27.580	27.517	27.544	27.449	27.426	27.546	—	—	26
27	—	—	—	27.615	27.575	27.512	27.539	27.444	27.431	27.545	—	—	27
28	—	—	—	27.608	27.566	27.506	27.532	27.439	27.463	27.547	—	—	28
29	—		—	27.604	27.559	27.500	27.529	27.440	27.475	27.545	—	—	29
30	—		—	27.598	27.561	27.491	27.523	27.440	27.475	27.546	—	—	30
31	—		—		27.568		27.520	27.438		27.545		—	31
MEAN	—	—	—	27.515	27.578	27.547	27.570	27.470	27.439	27.550	—	—	MEAN
MAX	—	—	—	27.619	27.613	27.577	27.644	27.512	27.475	27.593	—	—	MAX
MIN	—	—	—	27.431	27.556	27.491	27.487	27.438	27.619	27.477	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 27.644 METRES ON JUL 5
MINIMUM DAILY WATER LEVEL, 27.419 METRES ON SEP 21
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.668 METRES AT 0904 ON JUL 6

LAKE ICE
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	27.452 B	27.526	27.485	27.557	27.509	27.413	27.394	—	—	1
2	—	—	—	27.453 B	27.524	27.482	27.552	27.501	27.409	27.397	—	—	2
3	—	—	—	27.454 B	27.518	27.486	27.561	27.497	27.406	27.399	—	—	3
4	—	—	—	27.454 B	27.519	27.494	27.591	27.493	27.398	27.395	—	—	4
5	—	—	—	27.455 B	27.514	27.494	27.597	27.493	27.401	27.404	—	—	5
6	—	—	—	27.456 A	27.511	27.489	27.592	27.489	27.416	27.401	—	—	6
7	—	—	—	27.457	27.507	27.483	27.592	27.481	27.413	27.401	—	—	7
8	—	—	—	27.457	27.504	27.479	27.591	27.474	27.411	27.400	—	—	8
9	—	—	—	27.461	27.500	27.477	27.586	27.468	27.411	27.399	—	—	9
10	—	—	—	27.468	27.500	27.473	27.580	27.461	27.408	27.398	—	—	10
11	—	—	—	27.473	27.500	27.471	27.574	27.459	27.402	27.402	—	—	11
12	—	—	—	27.485	27.507	27.472	27.567	27.454	27.397	27.402	—	—	12
13	—	—	—	27.492	27.516	27.474	27.561	27.450	27.395	27.398	—	—	13
14	—	—	—	27.494	27.519	27.526	27.557	27.447	27.394	27.396	—	—	14
15	—	—	—	27.495	27.516	27.557	27.554	27.442	27.392	27.396	—	—	15
16	—	—	—	27.493	27.513	27.585	27.556	27.434	27.390	27.398	—	—	16
17	—	—	—	27.494	27.511	27.590	27.555	27.429	27.391	27.395	—	—	17
18	—	—	—	27.491	27.514	27.593	27.547	27.435	27.396	27.394	—	—	18
19	—	—	—	27.491	27.511	27.594	27.546	27.432	27.390	27.392	—	—	19
20	—	—	—	27.491	27.510	27.592	27.541	27.427	27.386	27.392	—	—	20
21	—	—	—	27.497	27.505	27.591	27.537	27.442	27.387	27.392	—	—	21
22	—	—	—	27.506	27.509	27.596	27.533	27.438	27.386	27.391	—	—	22
23	—	—	—	27.509	27.509	27.594	27.526	27.437	27.381	27.392	—	—	23
24	—	—	—	27.514	27.508	27.589	27.521	27.433	27.380	27.393	—	—	24
25	—	—	—	27.520	27.502	27.582	27.518	27.433	27.378	27.395	—	—	25
26	—	—	—	27.523	27.502	27.579	27.512	27.429	27.375	27.392	—	—	26
27	—	—	—	27.526	27.498	27.570	27.505	27.426	27.374	27.389	—	—	27
28	—	—	—	27.529	27.497	27.561	27.504	27.425	27.376	27.393	—	—	28
29	—	—	—	27.528	27.495	27.556	27.500	27.422	27.375	27.389	—	—	29
30	—	—	—	27.528	27.492	27.560	27.497	27.419	27.380	27.389	—	—	30
31	—		—		27.488		27.509	27.419		27.387		—	31
MEAN	—	—	—	27.488	27.508	27.536	27.549	27.452	27.394	27.395	—	—	MEAN
MAX	—	—	—	27.529	27.526	27.596	27.597	27.509	27.416	27.404	—	—	MAX
MIN	—	—	—	27.452	27.488	27.471	27.497	27.419	27.374	27.387	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 27.597 METRES ON JUL 5
MINIMUM DAILY WATER LEVEL, 27.374 METRES ON SEP 27
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.601 METRES AT 0714 ON JUN 22

LAKE 302
MEAN DAILY WATER LEVEL IN METRES FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	27.459 E	27.514	27.463	27.484	27.398	27.290	27.265	—	—	1
2	—	—	—	27.461 E	27.509	27.456	27.482	27.393	27.287	27.263	—	—	2
3	—	—	—	27.464 A	27.508	27.452	27.478	27.393	27.285	27.260	—	—	3
4	—	—	—	27.469	27.506	27.450	27.469	27.390	27.283	27.259	—	—	4
5	—	—	—	27.468	27.501	27.471	27.466	27.384	27.282	27.257	—	—	5
6	—	—	—	27.490	27.500	27.474	27.459	27.382	27.279	27.256	—	—	6
7	—	—	—	27.500	27.510	27.489	27.452	27.379	27.278	27.257	—	—	7
8	—	—	—	27.512	27.514	27.506	27.449	27.374	27.286	27.256	—	—	8
9	—	—	—	27.520	27.514	27.524	27.448	27.373	27.291	27.257	—	—	9
10	—	—	—	27.527	27.516	27.527	27.442	27.367	27.292	27.256	—	—	10
11	—	—	—	27.535	27.518	27.530	27.437	27.365	27.297	27.255	—	—	11
12	—	—	—	27.539	27.521	27.535	27.435	27.360	27.296	27.256	—	—	12
13	—	—	—	27.542	27.522	27.532	27.440	27.355	27.297	27.260	—	—	13
14	—	—	—	27.542	27.514	27.555	27.448	27.356	27.294	27.257	—	—	14
15	—	—	—	27.545	27.516	27.551	27.442	27.354	27.290	27.297	—	—	15
16	—	—	—	27.541	27.512	27.548	27.437	27.351	27.287	27.304	—	—	16
17	—	—	—	27.539	27.506	927.542	27.434	27.347	27.284	27.315	—	—	17
18	—	—	—	27.533	27.505	27.539	27.429	27.340	27.281	27.304	—	—	18
19	—	—	—	27.533	27.503	27.529	27.424	27.336	27.279	27.425	—	—	19
20	—	—	—	27.528	27.499	27.522	27.419	27.341	27.276	27.459	—	—	20
21	—	—	—	27.522	27.502	27.519	27.418	27.345	27.277	27.478	—	—	21
22	—	—	—	27.523	27.505	27.524	27.417	27.338	27.275	27.491	—	—	22
23	—	—	—	27.517	27.500	27.518	27.414	27.334	27.270	27.496	—	—	23
24	—	—	—	27.511	27.495	27.510	27.412	27.329	27.270	27.497	—	—	24
25	—	—	—	27.509	27.491	27.501	27.405	27.325	27.272	27.498	—	—	25
26	—	—	—	27.507	27.484	27.504	27.402	27.324	27.270	27.496	—	—	26
27	—	—	—	27.515	27.478	27.508	27.400	27.321	27.271	27.497	—	—	27
28	—	—	—	27.522	27.477	27.505	27.395	27.318	27.271	27.500	—	—	28
29	—		—	27.514	27.473	27.499	27.393	27.312	27.268	27.497	—	—	29
30	—		—	27.513	27.469	27.492	27.397	27.301	27.266	27.495	—	—	30
31	—		—		27.465		27.400	27.295		27.493 A		—	31
MEAN	—	—	—	27.513	27.502	57.510	27.433	27.351	27.281	27.365	—	—	MEAN
MAX	—	—	—	27.545	27.522	927.542	27.484	27.398	27.297	27.500	—	—	MAX
MIN	—	—	—	27.459	27.465	27.450	27.393	27.295	27.266	27.255	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 27.545 METRES ON APR 15
MINIMUM DAILY WATER LEVEL, 27.255 METRES ON OCT 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.555 METRES AT 0125 ON JUN 15

LAKE 302
MEAN DAILY WATER LEVEL IN METRES FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	27.430 E	27.628	27.536	27.563	27.448	27.540	27.581	27.537	—	1
2	—	—	—	27.430 A	27.617	27.529	27.556	27.441	27.540	27.578	27.531	—	2
3	—	—	—	27.432	27.607	27.519	27.550	27.439	27.549	27.573	27.530	—	3
4	—	—	—	27.435	27.615	27.512	27.544	27.448	27.550	27.570	27.529	—	4
5	—	—	—	27.434	27.617	27.506	27.539	27.448	27.550	27.568	—	—	5
6	—	—	—	27.434	27.617	27.502	27.533	27.448	27.549	27.563	—	—	6
7	—	—	—	27.433	27.624	27.498	27.526	27.445	27.543	27.565	—	—	7
8	—	—	—	27.433	27.619	27.495	27.518	27.438	27.537	27.580	—	—	8
9	—	—	—	27.432	27.610	27.489	27.511	27.433	27.530	27.582	—	—	9
10	—	—	—	27.432	27.605	27.483	27.501	27.428	27.522	27.580	—	—	10
11	—	—	—	27.433	27.616	27.477	27.491	27.426	27.520	27.579	—	—	11
12	—	—	—	27.436	27.644	27.472	27.484	27.431	27.514	27.580	—	—	12
13	—	—	—	27.439	27.665	27.472	27.485	27.452	27.504	27.585	—	—	13
14	—	—	—	27.444	27.663	27.469	27.480	27.461	27.503	27.589	—	—	14
15	—	—	—	27.451	27.669	27.469	27.473	27.469	27.501	27.590	—	—	15
16	—	—	—	27.459	27.692	27.480	27.467	27.464	27.500	27.590	—	—	16
17	—	—	—	27.463	27.683	27.490	27.464	27.528	27.499	27.590	—	—	17
18	—	—	—	27.468	27.667	27.489	27.470	27.571	27.498	27.586	—	—	18
19	—	—	—	27.468	27.656	27.482	27.489	27.577	27.562	27.581	—	—	19
20	—	—	—	27.478	27.641	27.480	27.483	27.576	27.615	27.580	—	—	20
21	—	—	—	27.518	27.626	27.480	27.474	27.571	27.619	27.577	—	—	21
22	—	—	—	27.655	27.611	27.527	27.470	27.573	27.618	27.574	—	—	22
23	—	—	—	27.689	27.600	27.538	27.472	27.581	27.616	27.570	—	—	23
24	—	—	—	27.695	27.588	27.534	27.484	27.581	27.612	27.569	—	—	24
25	—	—	—	27.700	27.578	27.532	27.481	27.578	27.609	27.564	—	—	25
26	—	—	—	27.695	27.568	27.543	27.474	27.573	27.602	27.560	—	—	26
27	—	—	—	27.673	27.557	27.543	27.469	27.567	27.600	27.557	—	—	27
28	—	—	—	27.658	27.554	27.562	27.464	27.560	27.599	27.551	—	—	28
29	—		—	27.650	27.547	27.565	27.459	27.556	27.591	27.549	—	—	29
30	—		—	27.641	27.548	27.564	27.456	27.548	27.586	27.542	—	—	30
31	—		—		27.541		27.450	27.546		27.540		—	31
MEAN	—	—	—	27.517	27.615	27.508	27.493	27.503	27.556	27.572	—	—	MEAN
MAX	—	—	—	27.700	27.692	27.565	27.563	27.581	27.619	27.590	—	—	MAX
MIN	—	—	—	27.432	27.541	27.469	27.450	27.426	27.498	27.540	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
M MISSING RECORD
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 27.700 METRES ON APR 25
MINIMUM DAILY WATER LEVEL, 27.426 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.705 METRES AT 0100 ON APR 25

LAKE 302
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	—	27.680	27.465	27.414	27.414	27.367	27.485	27.482	—	1
2	—	—	—	—	27.669	27.459	27.411	27.414	27.382	27.49[illegible]	27.482	—	2
3	—	—	—	—	27.656	27.454	27.408	27.410	27.441	27.495	27.481	—	3
4	—	—	—	—	27.642	27.451	27.409	27.410	27.467	27.493	—	—	4
5	—	—	—	—	27.654	27.445	27.441	27.412	27.470	27.493	—	—	5
6	—	—	—	—	27.651	27.441	27.449	27.409	27.468	27.491	—	—	6
7	—	—	—	—	27.642	27.442	27.445	27.409	27.466	27.496	—	—	7
8	—	—	—	—	27.670	27.436	27.440	27.411	27.463	27.496	—	—	8
9	—	—	—	—	27.519	27.472	27.478	27.408	27.461	27.494	—	—	9
10	—	—	—	27.531	27.611	27.430	27.454	27.406	27.457	27.494	—	—	10
11	—	—	—	27.532	27.603	27.425	27.440	27.401	27.456	27.497	—	—	11
12	—	—	—	27.531	27.594	27.421	27.444	27.398	27.459	27.495	—	—	12
13	—	—	—	27.530	27.585	27.416	27.442	27.401	27.458	27.494	—	—	13
14	—	—	—	27.528	27.581	27.413	27.440	27.398	27.455	27.493	—	—	14
15	—	—	—	27.526	27.574	27.413	27.438	27.391	27.452	27.492	—	—	15
16	—	—	—	27.524	27.565	27.412	27.438	27.404	27.448	27.491	—	—	16
17	—	—	—	27.521	27.557	27.408	27.437	27.400	27.454	27.490	—	—	17
18	—	—	—	27.516	27.551	27.406	27.436	27.396	27.458	27.489	—	—	18
19	—	—	—	27.537	27.541	27.405	27.435	27.400	27.458	27.489	—	—	19
20	—	—	—	27.549	27.536	27.412	27.436	27.405	27.458	27.489	—	—	20
21	—	—	—	27.554	27.531	27.421	27.432	27.401	27.458	27.488	—	—	21
22	—	—	—	27.552	27.524	27.420	27.426	27.398	27.467	27.488	—	—	22
23	—	—	—	27.548	27.516	27.414	27.425	27.395	27.469	27.487	—	—	23
24	—	—	—	27.544	27.511	27.410	27.424	27.391	27.469	27.486	—	—	24
25	—	—	—	27.542	27.506	27.418	27.420	27.393	27.473	27.485	—	—	25
26	—	—	—	27.565	27.501	27.428	27.416	27.389	27.476	27.485	—	—	26
27	—	—	—	27.580	27.494	27.428	27.418	27.383	27.481	27.485	—	—	27
28	—	—	—	27.636	27.489	27.425	27.420	27.377	27.483	27.486	—	—	28
29	—		—	27.670	27.485	27.418	27.421	27.373	27.484	27.484	—	—	29
30	—		—	27.670	27.478	27.414	27.419	27.371	27.485	27.482	—	—	30
31	—		—		27.471		27.413	27.368		27.485		—	31
MEAN	—	—	—	—	27.569	27.426	27.429	27.397	27.458	27.490	—	—	MEAN
MAX	—	—	—	—	27.680	27.465	27.449	27.414	27.485	27.497	—	—	MAX
MIN	—	—	—	—	27.471	27.405	27.408	27.368	27.367	27.482	—	—	MIN

NOTES

—— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 27.680 METRES ON MAY 01
MINIMUM DAILY WATER LEVEL, 27.367 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.681 METRES AT 05:08 ON MAY 01

LAKE 302
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	27.528	27.469	27.539	27.511	27.477	27.514	27.468	27.447	----	1
2	----	----	----	27.532	27.465	27.544	27.514	27.474	27.510	27.463	27.447 A	----	2
3	----	----	----	27.538	27.461	27.542	27.511	27.471	27.506	27.458	----	----	3
4	----	----	----	27.544	27.457	27.541	27.507	27.464	27.502	27.457	----	----	4
5	----	----	----	27.545	27.453	27.539	27.504	27.459	27.501	27.460	----	----	5
6	----	----	----	27.545	27.450	27.538	27.502	27.461	27.501	27.458	----	----	6
7	----	----	----	27.541	27.446	27.538	27.501	27.459	27.499	27.455	----	----	7
8	----	----	----	27.535	27.444	27.535	27.497	27.454	27.498	27.455	----	----	8
9	----	----	----	27.530	27.440	27.530	27.491	27.453	27.496	27.460	----	----	9
10	----	----	----	27.525	27.436	27.527	27.487	27.448	27.495	27.458	----	----	10
11	----	----	----	27.524	27.433	27.563	27.485	27.463	27.493	27.456	----	----	11
12	----	----	----	27.523	27.429	27.571	27.493	27.509	27.495	27.455	----	----	12
13	----	----	----	27.525	27.436	27.571	27.491	27.509	27.495	27.452	----	----	13
14	----	----	----	27.527	27.445	27.569	27.487	27.510	27.494	27.451	----	----	14
15	----	----	----	27.529	27.443	27.564	27.487	27.512	27.492	27.450	----	----	15
16	----	----	----	27.529	27.443	27.560	27.489	27.538	27.491	27.450	----	----	16
17	----	----	----	27.525	27.443	27.555	27.486	27.545	27.489	27.448	----	----	17
18	----	----	----	27.522	27.437	27.554	27.485	27.548	27.487	27.445	----	----	18
19	----	----	----	27.518	27.434	27.550	27.488	27.547	27.487	27.448	----	----	19
20	----	----	----	27.513	27.433	27.546	27.489	27.544	27.485	27.444	----	----	20
21	----	----	----	27.509	27.472	27.544	27.485	27.541	27.485	27.443	----	----	21
22	----	----	----	27.505	27.494	27.545	27.489	27.536	27.483	27.442	----	----	22
23	----	----	----	27.501	27.500	27.541	27.488	27.533	27.480	27.443	----	----	23
24	----	----	27.526 A	27.495	27.503	27.534	27.485	27.530	27.476	27.444	----	----	24
25	----	----	27.520	27.492	27.505	27.529	27.482	27.526	27.473	27.442	----	----	25
26	----	----	27.519	27.488	27.520	27.530	27.479	27.524	27.471	27.446	----	----	26
27	----	----	27.520	27.484	27.529	27.527	27.475	27.522	27.469	27.449	----	----	27
28	----	----	27.522	27.478	27.534	27.522	27.471	27.519	27.470	27.448	----	----	28
29	----		27.524	27.475	27.537	27.517	27.468	27.519	27.472	27.447	----	----	29
30	----		27.525	27.471	27.538	27.512	27.464	27.524	27.469	27.447	----	----	30
31	----		27.527		27.537		27.473	27.518		27.446		----	31
MEAN	----	----	----	27.517	27.470	27.543	27.489	27.504	27.489	27.451	----	----	MEAN
MAX	----	----	----	27.545	27.538	27.571	27.514	27.548	27.514	27.468	----	----	MAX
MIN	----	----	----	27.471	27.429	27.512	27.464	27.448	27.469	27.442	----	----	MIN

NOTES

---- NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

MAXIMUM DAILY WATER LEVEL, 27.571 METRES ON JUN 12
MINIMUM DAILY WATER LEVEL, 27.429 METRES ON MAY 12
MAXIMUM INSTANTANEOUS WATER LEVEL, 27.572 METRES AT 16:43 ON JUN 12

LAKE 303 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0002 E	----	----	0.0019 E	0.0078	0.0055	0.0000	0.0001	0.0000	0.0080	----	----	1
2	----	----	----	0.0021 A	0.0069	0.0050	0.0017	0.0002	0.0000	0.0168	----	----	2
3	----	----	----	0.0019 E	0.0062	0.0046	0.0745	0.0002	0.0000	0.0214	----	----	3
4	----	----	----	0.0019 E	0.0070	0.0035	0.0532	0.0002	0.0000	0.0187	----	----	4
5	----	----	----	0.0019 E	0.0083	0.0030	0.0405	0.0001	0.0000	0.0150	----	----	5
6	----	----	----	0.0020 E	0.0072	0.0029	0.0359	0.0001	0.0000	0.0135	----	----	6
7	----	----	----	0.0023 A	0.0062	0.0048	0.0247	0.0001	0.0000	0.0556	----	----	7
8	----	----	----	0.0022	0.0052	0.0043	0.0173	0.0001	0.0000	0.0381	----	----	8
9	----	0.0006 A	----	0.0022	0.0048	0.0060	0.0122	0.0000	0.0000	0.0242	----	----	9
10	----	----	----	0.0026	0.0051	0.0140	0.0094	0.0000	0.0000	0.0339	----	----	10
11	----	----	0.0004 A	0.0022	0.0052	0.0132	0.0073	0.0000	0.0000	0.0401	----	----	11
12	----	----	----	0.0022	0.0047	0.0104	0.0065	0.0000	0.0000	0.0275	----	----	12
13	----	----	----	0.0031	0.0043	0.0081	0.0066	0.0000	0.0000	0.0198	----	0.0013 A	13
14	----	----	----	0.0142	0.0041	0.0080	0.0052	0.0000	0.0000	0.0158	----	----	14
15	----	----	----	0.0769	0.0048	0.0061	0.0046	0.0000	0.0000	0.0118	----	----	15
16	----	----	----	0.1660	0.0056	0.0050	0.0040	0.0000	0.0000	0.0087	----	----	16
17	----	----	----	0.0983	0.0071	0.0045	0.0082	0.0000	0.0000	0.0080	----	----	17
18	----	----	----	0.0493	0.0157	0.0040	0.0082	0.0000	0.0000	0.0075	----	----	18
19	----	----	----	0.0390	0.0224	0.0033	0.0069	0.0000	0.0000	0.0057	----	----	19
20	----	----	----	0.0330	0.0187	0.0030	0.0055	0.0000	0.0000	0.0050	----	----	20
21	----	----	----	0.0288	0.0147	0.0029	0.0046	0.0000	0.0000	0.0046	----	----	21
22	----	----	----	0.0281	0.0113	0.0022	0.0034	0.0000	0.0000	0.0044	----	----	22
23	----	----	----	0.0293	0.0089	0.0018	0.0022	0.0000	0.0000	0.0042	----	----	23
24	----	----	----	0.0270	0.0073	0.0015	0.0015	0.0000	0.0000	0.0040	----	----	24
25	----	----	----	0.0231	0.0061	0.0012	0.0013	0.0000	0.0000	0.0038	----	----	25
26	----	----	----	0.0186	0.0052	0.0008	0.0007	0.0000	0.0001	0.0037	----	----	26
27	----	----	----	0.0148	0.0044	0.0006	0.0004	0.0000	0.0002	0.0035	----	----	27
28	----	----	----	0.0129	0.0041	0.0002	0.0003	0.0000	0.0017	0.0038	----	----	28
29	----		----	0.0104	0.0032	0.0002	0.0003	0.0000	0.0078	0.0035	----	----	29
30	----		----	0.0088	0.0030	0.0001	0.0002	0.0000	0.0094	0.0035	----	----	30
31	----		----		0.0040		0.0002	0.0000		0.0031		0.0021 E	31
TOTAL	----	----	----	0.7070	0.2295	0.1307	0.2475	0.0011	0.0192	0.4372	----	----	TOTAL
MEAN	----	----	----	0.0236	0.0074	0.0044	0.0112	.0000	0.0006	0.0141	----	----	MEAN
MAX	----	----	----	0.1660	0.0224	0.0140	0.0745	0.0002	0.0094	0.0556	----	----	MAX
MIN	----	----	----	0.0019	0.0030	0.0001	0.0000	0.0000	0.0000	0.0031	----	----	MIN

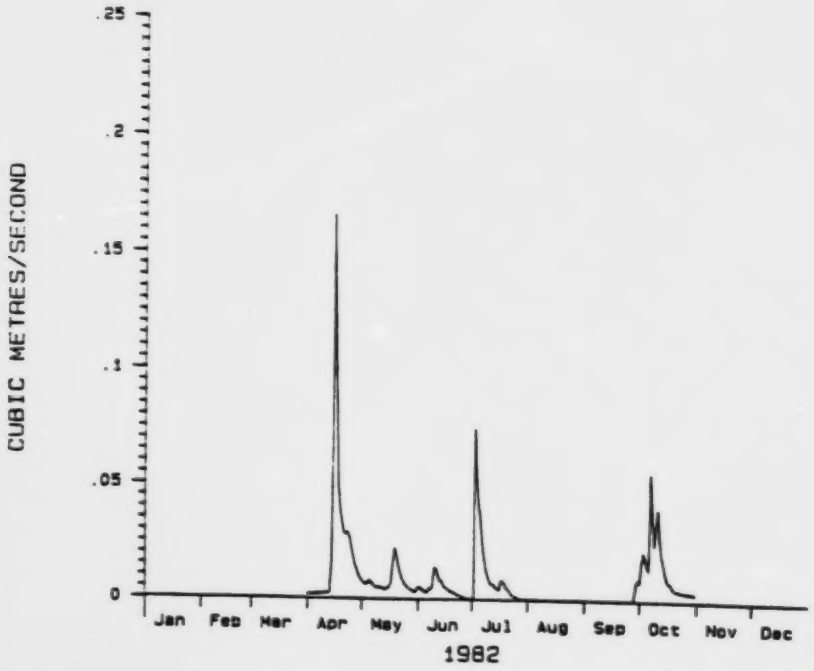
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	61085	19829	11292	30024	95	1659	37774	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	161758	CUBIC METRES	
MEAN DISCHARGE.	0.0088	CUBIC METRES/SEC	
MAX DAILY DISCHARGE.	0.1660	CUBIC METRES/SEC ON	APR 16
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON	JUL 1
MAX INSTANTANEOUS FLOW.	0.2010	CUBIC METRES/SEC ON	APR 16

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 303 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0021 E	----	----	0.0015	0.0079	0.0013	0.0013	0.0002	0.0000	0.0001			
2	----	----	----	0.0023	0.0066	0.0012	0.0010	0.0002	0.0001	0.0001	----	----	1
3	----	----	----	0.0025	0.0056	0.0014	0.0017	0.0002	0.0001	0.0000	----	----	2
4	----	----	----	0.0023	0.0063	0.0015	0.0104	0.0001	0.0000	0.0001	----	----	3
5	----	----	----	0.0025	0.0057	0.0014	0.0120	0.0002	0.0000	0.0001	----	----	4
6	----	----	----	0.0030	0.0052	0.0014	0.0089	0.0001	0.0001	0.0001	----	----	5
7	----	----	----	0.0039	0.0043	0.0009	0.0066	0.0001	0.0000	0.0001	----	----	6
8	----	----	----	0.0066	0.0036	0.0008	0.0053	0.0001	0.0000	0.0001	----	----	7
9	----	----	----	0.0153	0.0035	0.0007	0.0036	0.0001	0.0000	0.0001	----	----	8
10	----	----	----	0.0246	0.0032	0.0006	0.0024	0.0001	0.0001	0.0001	----	----	9
11	----	----	----	0.0342	0.0039	0.0006	0.0019	0.0001	0.0000	0.0000	----	----	10
12	0.0025 A	----	----	0.0417	0.0048	0.0008	0.0012	0.0001	0.0000	0.0001	----	----	11
13	----	----	----	0.0360	0.0086	0.0007	0.0009	0.0001	0.0000	0.0000	----	----	12
14	----	0.0008 A	----	0.0247	0.0083	0.0088	0.0008	0.0001	0.0000	0.0000	----	0.0010 A	13
15	----	----	0.0015 A	0.0170	0.0060	0.0279	0.0006	0.0001	0.0000	0.0000	----	----	14
16	----	----	----	0.0124	0.0047	0.0349	0.0007	0.0001	0.0000	0.0000	----	----	15
17	----	----	----	0.0100	0.0044	0.0213	0.0006	0.0001	0.0001	0.0000	----	----	16
18	----	----	----	0.0093	0.0047	0.0135	0.0006	0.0001	0.0001	0.0000	----	----	17
19	----	----	----	0.0120	0.0042	0.0088	0.0006	0.0000	0.0001	0.0000	----	----	18
20	----	----	----	0.0172	0.0038	0.0064	0.0005	0.0000	0.0001	0.0000	----	----	19
21	----	----	----	0.0215	0.0036	0.0050	0.0003	0.0001	0.0001	0.0000	----	----	20
22	----	----	----	0.0228	0.0052	0.0075	0.0002	0.0001	0.0001	0.0000	----	----	21
23	----	----	----	0.0176	0.0051	0.0060	0.0002	0.0001	0.0001	0.0000	----	----	22
24	----	----	----	0.0150	0.0051	0.0045	0.0001	0.0001	0.0001	0.0000	----	----	23
25	----	----	----	0.0133	0.0039	0.0034	0.0002	0.0000	0.0000	0.0000	----	----	24
26	----	----	----	0.0123	0.0031	0.0027	0.0001	0.0000	0.0000	0.0000	----	----	25
27	----	----	----	0.0120	0.0029	0.0015	0.0001	0.0000	0.0000	0.0000	----	----	26
28	----	----	----	0.0112	0.0028	0.0011	0.0002	0.0000	0.0001	0.0000	----	----	27
29	----		----	0.0114	0.0022	0.0010	0.0002	0.0000	0.0000	0.0000	----	----	28
30	----		----	0.0093	0.0017	0.0013	0.0002	0.0000	0.0000	0.0000	----	----	29
31	----		----		0.0013		0.0002	0.0000		0.0000	----	----	30
TOTAL	----	----	----	0.4276	0.1422	0.1687	0.0636	0.0026	0.0013	0.0010		----	31
MEAN	----	----	----	0.0143	0.0046	0.0056	0.0021	0.0001	0.0000	0.0000	----	----	TOTAL
MAX	----	----	----	0.0417	0.0086	0.0349	0.0120	0.0002	0.0001	0.0001	----	----	MEAN
MIN	----	----	----	0.0015	0.0013	0.0006	0.0001	0.0000	0.0000	0.0000	----	----	MAX
											----	----	MIN

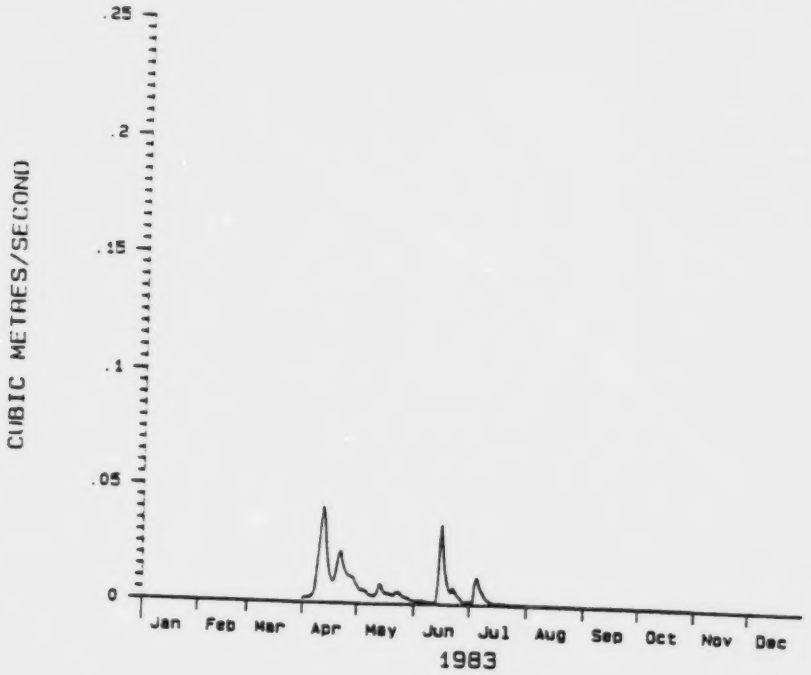
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	36945	12286	14576	5495	225	112	86	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	69725	CUBIC METRES	
MEAN DISCHARGE,	0.0038	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0417	CUBIC METRES/SEC ON	APR 12
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	AUG 19
MAX INSTANTANEOUS FLOW,	0.0453	CUBIC METRES/SEC ON	APR 12

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 303 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0038 E	0.0047	0.0008	0.0015	0.0003	0.0000	0.0000	----	----	1
2	----	----	----	0.0085 E	0.0043	0.0007	0.0018	0.0003	0.0000	0.0000	----	----	2
3	----	----	----	0.0143 A	0.0038	0.0006	0.0024	0.0002	0.0000	0.0000	----	----	3
4	----	----	----	0.0234	0.0031	0.0006	0.0017	0.0003	0.0000	0.0000	----	----	4
5	----	----	----	0.0321	0.0026	0.0008	0.0013	0.0002	0.0000	0.0000	----	----	5
6	----	----	0.0010 E	0.0380	0.0022	0.0009	0.0008	0.0002	0.0000	0.0000	----	----	6
7	----	----	----	0.0355	0.0038	0.0026	0.0006	0.0003	0.0000	0.0000	----	----	7
8	----	0.0010 E	----	0.0319	0.0049	0.0050	0.0005	0.0003	0.0000	0.0000	----	----	8
9	----	----	----	0.0294	0.0043	0.0126	0.0005	0.0002	0.0000	0.0000	----	----	9
10	----	----	----	0.0251	0.0043	0.0124	0.0004	0.0001	0.0000	0.0000	----	----	10
11	----	----	----	0.0224	0.0055	0.0093	0.0004	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0185	0.0060	0.0091	0.0002	0.0000	0.0000	0.0000	----	0.0025 A	12
13	----	----	----	0.0152	0.0053	0.0134	0.0003	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0116	0.0046	0.0113	0.0005	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0098	0.0039	0.0091	0.0004	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0078	0.0035	0.0078	0.0004	0.0000	0.0000	0.0001	----	----	16
17	----	----	----	0.0066	0.0032	0.0064	0.0003	0.0000	0.0000	0.0010	----	----	17
18	----	----	----	0.0053	0.0031	0.0054	0.0002	0.0000	0.0000	0.0025	----	----	18
19	----	----	----	0.0039	0.0025	0.0037	0.0001	0.0000	0.0000	0.0140	----	----	19
20	----	----	----	0.0024	0.0022	0.0032	0.0001	0.0000	0.0000	0.0338	----	----	20
21	----	----	----	0.0012	0.0026	0.0032	0.0003	0.0000	0.0000	0.0314	----	----	21
22	----	----	----	0.0008	0.0028	0.0042	0.0003	0.0000	0.0000	0.0266	----	----	22
23	----	----	----	0.0026	0.0024	0.0040	0.0002	0.0000	0.0000	0.0207	----	----	23
24	----	----	----	0.0031	0.0019	0.0028	0.0002	0.0000	0.0000	0.0171	----	----	24
25	----	----	----	0.0041	0.0014	0.0020	0.0002	0.0000	0.0000	0.0126	----	----	25
26	----	----	----	0.0038	0.0014	0.0027	0.0002	0.0000	0.0000	0.0108	----	----	26
27	----	----	----	0.0040	0.0011	0.0041	0.0002	0.0000	0.0000	0.0102	----	----	27
28	----	----	----	0.0060	0.0010	0.0032	0.0002	0.0000	0.0000	0.0099	----	----	28
29	----		----	0.0058	0.0010	0.0028	0.0003	0.0000	0.0000	0.0076	0.0085 A	----	29
30	----		----	0.0055	0.0011	0.0019	0.0004	0.0000	0.0000	0.0069	----	----	30
31	----		----		0.0009		0.0005	0.0000		0.0069		0.0017 E	31
TOTAL	----	----	----	0.3824	0.0954	0.1466	0.0174	0.0024	0.0000	0.2121	----	----	TOTAL
MEAN	----	----	----	0.0127	0.0031	0.0049	0.0006	0.0001	0.0000	0.0068	----	----	MEAN
MAX	----	----	----	0.0380	0.0060	0.0134	0.0024	0.0003	0.0000	0.0338	----	----	MAX
MIN	----	----	----	0.0008	0.0009	0.0006	0.0001	0.0000	0.0000	0.0000	----	----	MIN

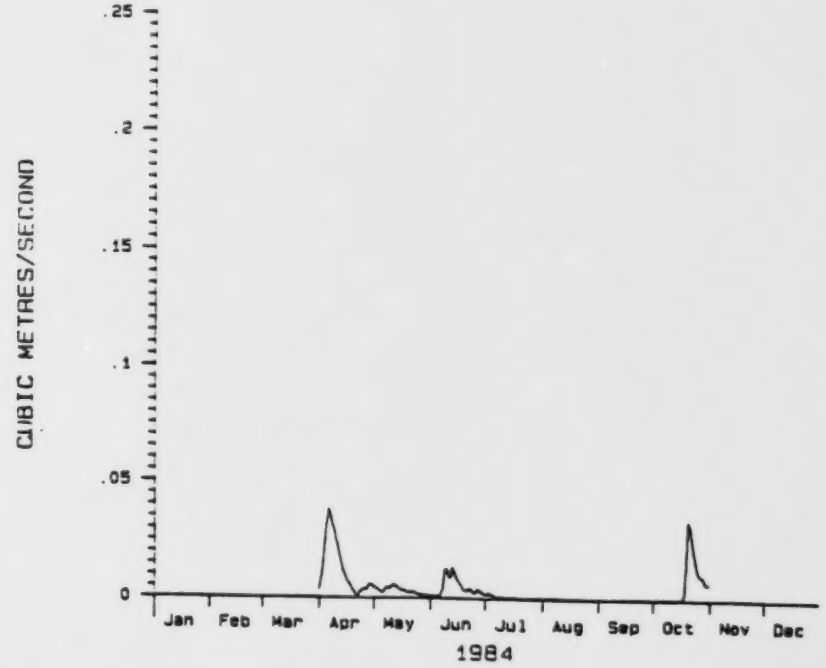
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	33039	8243	12666	1503	207	0	18325	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	73984	CUBIC METRES
MEAN DISCHARGE,	0.0040	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0380	CUBIC METRES/SEC ON APR 6
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 16
MAX INSTANTANEOUS FLOW,	0.0396	CUBIC METRES/SEC ON APR 6

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE JOY OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0017 E	—	—	0.0080 E	0.0108	0.0044	0.0124	0.0006	0.0021	0.0040	0.0022	—	1
2	—	—	—	0.0088 A	0.0089	0.0038	0.0083	0.0006	0.0023	0.0034	0.0020	—	2
3	—	—	—	0.0129 A	0.0072	0.0031	0.0066	0.0006	0.0022	0.0036	0.0019	—	3
4	—	—	—	0.0105	0.0137	0.0031	0.0055	0.0007	0.0038	0.0026	0.0017	—	4
5	—	—	—	0.0081	0.0176	0.0030	0.0045	0.0006	0.0040	0.0035	—	—	5
6	—	—	—	0.0075	0.0198	0.0029	0.0038	0.0006	0.0039	0.0033	—	—	6
7	—	—	—	0.0075	0.0215	0.0028	0.0030	0.0006	0.0034	0.0034	—	—	7
8	—	—	—	0.0061	0.0195	0.0028	0.0024	0.0007	0.0029	0.0068	—	—	8
9	—	—	—	0.0051	0.0156	0.0024	0.0019	0.0006	0.0024	0.0066	—	0.0065 A	9
10	—	—	—	0.0054	0.0122	0.0020	0.0015	0.0006	0.0019	0.0058	—	—	10
11	—	—	—	0.0085	0.0244	0.0016	0.0012	0.0005	0.0017	0.0044	—	—	11
12	—	—	—	0.0117	0.0456	0.0014	0.0009	0.0007	0.0016	0.0110	—	—	12
13	—	—	—	0.0119	0.0661	0.0014	0.0009	0.0008	0.0013	0.0218	—	—	13
14	—	—	—	0.0142	0.0776	0.0014	0.0009	0.0007	0.0012	0.0194	—	—	14
15	—	—	—	0.0161	0.0362	0.0016	0.0009	0.0007	0.0012	0.0158	—	—	15
16	—	—	—	0.0142	0.0585	0.0021	0.0008	0.0005	0.0012	0.0119	—	—	16
17	—	—	0.0010 A	0.0105	0.0371	0.0028	0.0008	0.0051	0.0012	0.0097	—	—	17
18	—	0.0009 A	—	0.0088	0.0228	0.0030	0.0009	0.0137	0.0011	0.0086	—	—	18
19	—	—	—	0.0083	0.0167	0.0024	0.0008	0.0129	0.1044 C	0.0072	—	—	19
20	—	—	—	0.0086	0.0137	0.0023	0.0007	0.0099	0.0819	0.0063	—	—	20
21	—	—	—	0.0599 C	0.0108	0.0028	0.0007	0.0081	0.0366	0.0057	—	—	21
22	0.0009 A	—	—	0.1434 C	0.0086	0.0356	0.0007	0.0093	0.0211	0.0054	—	—	22
23	—	—	—	0.0832	0.0072	0.0357	0.0007	0.0117	0.0153	0.0048	—	—	23
24	—	—	—	0.0562	0.0062	0.0194	0.0007	0.0099	0.0119	0.0044	—	—	24
25	—	—	—	0.0461	0.0044	0.0156	0.0007	0.0075	0.0097	0.0040	—	—	25
26	—	—	—	0.0348	0.0041	0.0150	0.0007	0.0065	0.0070	0.0039	—	—	26
27	—	—	—	0.0280	0.0040	0.0156	0.0007	0.0052	0.0060	0.0033	—	—	27
28	—	—	—	0.0206	0.0035	0.0257	0.0007	0.0041	0.0054	0.0032	0.0029 A	—	28
29	—	—	—	0.0167	0.0036	0.0232	0.0006	0.0032	0.0048	0.0028	—	—	29
30	—	—	—	0.0134	0.0045	0.0167	0.0006	0.0026	0.0042	0.0023	—	—	30
31	—	—	—		0.0042		0.0005	0.0024		0.0022		0.0036 E	31
TOTAL	—	—	—	0.6950	0.5668	0.2555	0.0658	0.1222	0.3487	0.2021	—	—	TOTAL
MEAN	—	—	—	0.0232	0.0183	0.0085	0.0021	0.0039	0.0116	0.0065	—	—	MEAN
MAX	—	—	—	0.1434	0.0661	0.0357	0.0124	0.0137	0.1044	0.0218	—	—	MAX
MIN	—	—	—	0.0051	0.0035	0.0014	0.0005	0.0005	0.0011	0.0022	—	—	MIN

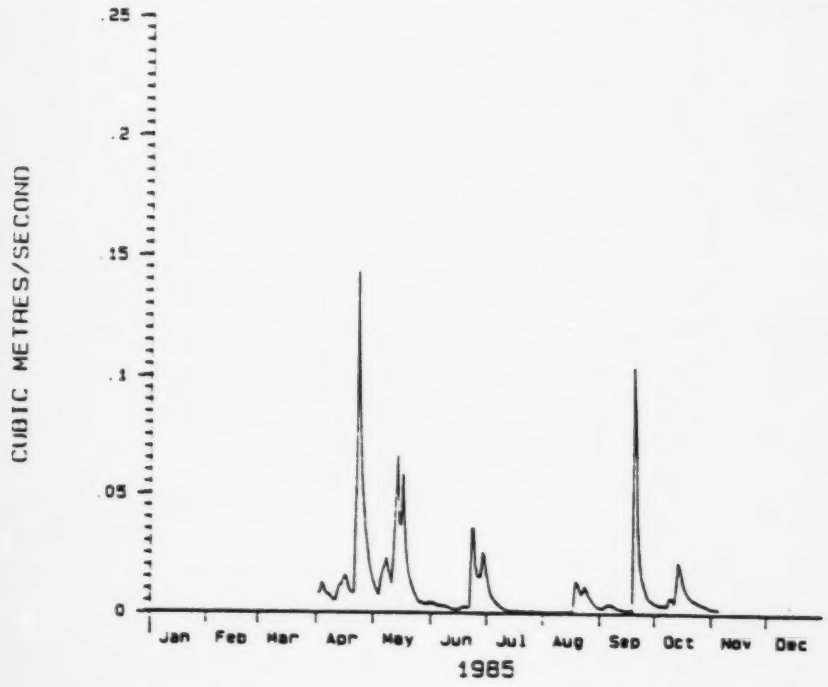
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	60048	48970	22075	5685	10558	30129	17461	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	194927	CUBIC METRES
MEAN DISCHARGE.	0.0106	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.1434 C	CUBIC METRES/SEC ON APR 22
MIN DAILY DISCHARGE.	0.0005	CUBIC METRES/SEC ON JUL 31
MAX INSTANTANEOUS FLOW.	M,C	CUBIC METRES/SEC ON APR 21

A MANUAL OBSERVATION, NON RECORDED VALUE
C FLOW TOPPED WEIR FOR PART OF DAY, TREAT AS ESTIMATE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE ICE OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0076 E	—	—	0.0482	0.0442	0.0001	0.0000	0.0000	0.0000	0.0000	0.0007	—	1
2	—	—	—	0.0432	0.0330	0.0001	0.0000	0.0000	0.0000	0.0002	0.0002	—	2
3	—	—	—	0.0354	0.0224	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002 A	—	3
4	—	—	—	0.0318	0.0161	0.0000	0.0000	0.0000	0.0001	0.0001	—	—	4
5	—	—	0.0008 A	0.0307	0.0265	0.0000	0.0001	0.0000	0.0000	0.0002	—	—	5
6	—	—	—	0.0265	0.0255	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	6
7	—	—	—	0.0237	0.0198	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	7
8	—	—	—	0.0203	0.0148	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	8
9	—	—	—	0.0181	0.0121	0.0000	0.0000	0.0000	0.0002	0.0001	—	0.0016 A	9
10	—	—	—	0.0140	0.0104	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	10
11	—	—	—	0.0121	0.0090	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	11
12	—	—	—	0.0102	0.0082	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	12
13	—	—	—	0.0091	0.0077	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	13
14	—	—	—	0.0079	0.0065	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	14
15	—	—	—	0.0063	0.0056	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	15
16	—	—	—	0.0055	0.0046	0.0000	0.0000	0.0000	0.0000	0.0001	—	—	16
17	—	—	—	0.0048	0.0036	0.0000	0.0000	0.0000	0.0000	0.0001	—	—	17
18	—	0.0009 A	—	0.0042	0.0031	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	18
19	—	—	—	0.0062	0.0027	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	19
20	—	—	—	0.0121	0.0024	0.0000	0.0000	0.0000	0.0000	0.0001	—	—	20
21	0.0009 A	—	—	0.0116	0.0021	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	21
22	—	—	—	0.0097	0.0016	0.0000	0.0000	0.0000	0.0001	0.0002	—	—	22
23	—	—	—	0.0134	0.0012	0.0000	0.0000	0.0000	0.0002	0.0003	—	—	23
24	—	—	—	0.0189	0.0010	0.0000	0.0000	0.0000	0.0001	0.0003	—	—	24
25	—	—	—	0.0177	0.0008	0.0001	0.0000	0.0000	0.0000	0.0002	—	—	25
26	—	—	0.0009 A	0.0212	0.0006	0.0001	0.0000	0.0000	0.0000	0.0003	0.0025 A	—	26
27	—	—	0.0010	0.0256	0.0004	0.0000	0.0000	0.0000	0.0000	0.0003	—	—	27
28	—	—	0.0014	0.0852	0.0003	0.0000	0.0000	0.0000	0.0000	0.0003	—	—	28
29	—	—	0.0023	0.0711	0.0002	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	29
30	—	—	0.0104	0.0427	0.0002	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	30
31	—	—	0.0275		0.0001		0.0000	0.0000		0.0003		0.0008 E	31
TOTAL	—	—	—	0.6924	0.2965	0.0004	0.0001	0.0000	0.0009	0.0069	—	—	TOTAL
MEAN	—	—	—	0.0231	0.0092	0.0000	0.0000	0.0000	0.0000	0.0002	—	—	MEAN
MAX	—	—	—	0.0852	0.0442	0.0001	0.0001	0.0000	0.0002	0.0007	—	—	MAX
MIN	—	—	—	0.0042	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	—	—	MIN

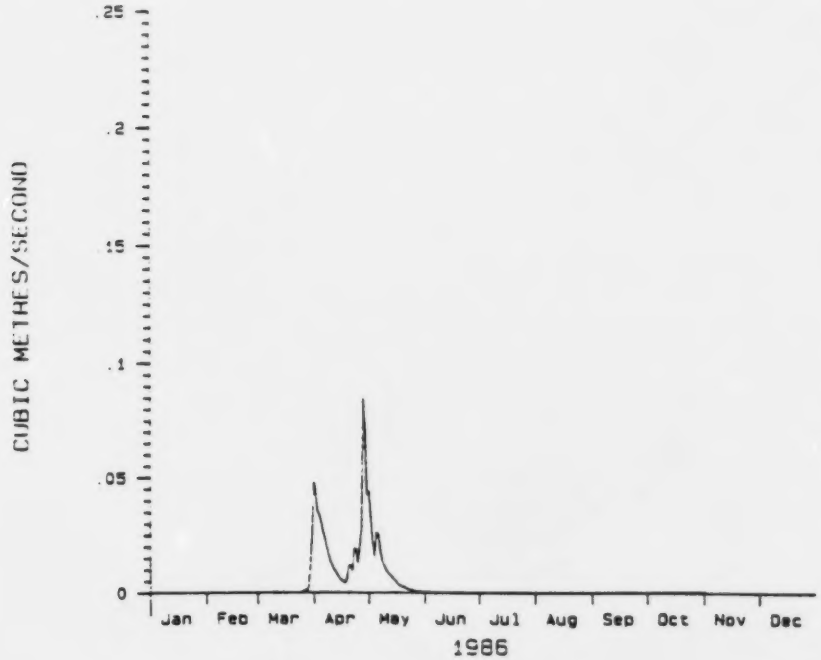
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	59823	24751	32	9	0	77	509	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	85201	CUBIC METRES	
MEAN DISCHARGE,	0.0046	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.0852	CUBIC METRES/SEC	ON APR 28
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUN 04
MAX INSTANTANEOUS FLOW,	0.1076	CUBIC METRES/SEC	ON APR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 303 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0008 E	----	0.0003 E	0.0090	0.0006	0.0049	0.0001	0.0000	0.0000	0.0000	0.0000	----	1
2	----	----	0.0003 E	0.0075	0.0006	0.0047	0.0001	0.0000	0.0000	0.0000	0.0000	----	2
3	----	----	0.0003 E	0.0065	0.0006	0.0037	0.0001	0.0000	0.0000	0.0001	0.0000 A	----	3
4	----	----	0.0003 E	0.0061	0.0005	0.0033	0.0001	0.0000	0.0000	0.0001	----	----	4
5	----	----	0.0003 A	0.0064	0.0005	0.0027	0.0001	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0003 E	0.0062	0.0005	0.0025	0.0001	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0003 E	0.0108	0.0004	0.0023	0.0001	0.0001	0.0000	0.0000	----	----	7
8	----	----	0.0003 E	0.0127	0.0004	0.0014	0.0001	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0003 E	0.0120	0.0003	0.0009	0.0001	0.0000	0.0000	0.0001	----	----	9
10	----	----	0.0003 E	0.0126	0.0003	0.0009	0.0001	0.0000	0.0001	0.0001	----	----	10
11	----	----	0.0003 E	0.0111	0.0002	0.0057	0.0001	0.0001	0.0001	0.0001	----	----	11
12	----	----	0.0003 E	0.0087	0.0002	0.0064	0.0001	0.0001	0.0000	0.0000	----	----	12
13	----	----	0.0003 E	0.0077	0.0002	0.0064	0.0001	0.0000	0.0000	0.0000	----	----	13
14	----	----	0.0003 E	0.0071	0.0002	0.0042	0.0001	0.0000	0.0000	0.0000	----	----	14
15	----	----	0.0003 E	0.0062	0.0002	0.0030	0.0001	0.0001	0.0000	0.0000	----	----	15
16	----	0.0004 A	0.0003 E	0.0057	0.0001	0.0023	0.0001	0.0001	0.0000	0.0000	----	0.0000 A	16
17	----	----	0.0003 E	0.0053	0.0001	0.0018	0.0003	0.0001	0.0001	0.0000	----	----	17
18	----	----	0.0003 E	0.0048	0.0000	0.0013	0.0003	0.0000	0.0001	0.0000	----	----	18
19	0.0003 A	----	0.0003 E	0.0047	0.0001	0.0009	0.0003	0.0000	0.0001	0.0000	----	----	19
20	----	----	0.0003 E	0.0045	0.0001	0.0007	0.0002	0.0000	0.0001	0.0000	----	----	20
21	----	----	0.0003 E	0.0035	0.0016	0.0005	0.0001	0.0001	0.0001	0.0000	----	----	21
22	----	----	0.0088 E	0.0029	0.0044	0.0006	0.0000	0.0001	0.0000	0.0000	----	----	22
23	----	----	0.0177 E	0.0023	0.0056	0.0004	0.0000	0.0001	0.0000	0.0000	----	----	23
24	----	----	0.0266 E	0.0017	0.0054	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000 A	----	24
25	----	----	0.0357 A	0.0015	0.0050	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0301	0.0016	0.0079	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0256	0.0017	0.0096	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0214	0.0014	0.0097	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0186	0.0008	0.0082	0.0002	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0127	0.0006	0.0066	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0102		0.0052		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.2117	0.1765	0.0763	0.0619	0.0028	0.0009	0.0007	0.0005	----	----	TOTAL
MEAN	----	----	0.0068	0.0059	0.0024	0.0021	0.0001	0.0000	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0357	0.0130	0.0097	0.0064	0.0003	0.0001	0.0001	0.0001	----	----	MAX
MIN	----	----	0.0003	0.0006	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	----	----	MIN

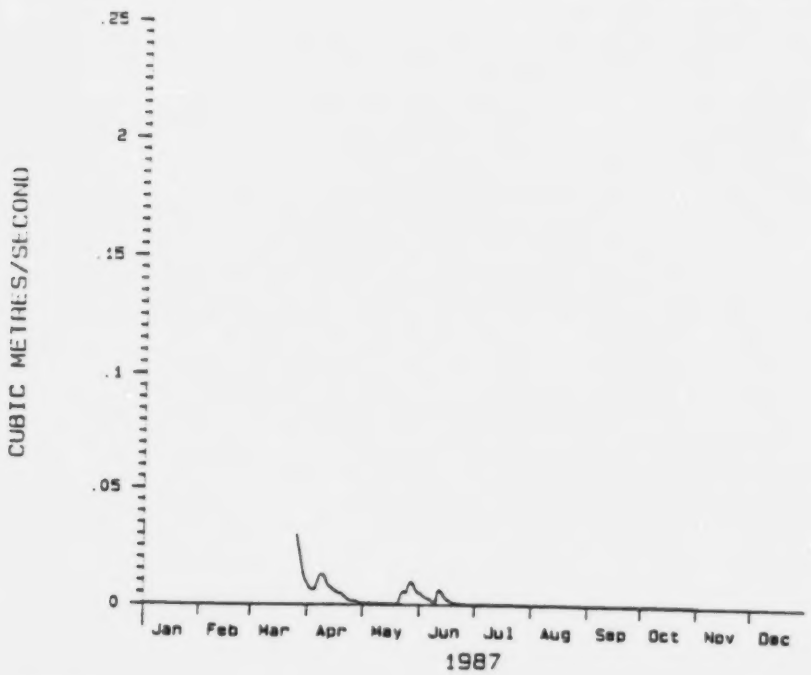
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	18291	15250	6596	5348	242	78	60	43	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	45818	CUBIC METRES
MEAN DISCHARGE.	0.0022	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0357	CUBIC METRES/SEC ON MAR 25
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON MAY 18
MAX INSTANTANEOUS FLOW.	0.0357	CUBIC METRES/SEC ON MAR 25

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 305
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	55.705 E	55.741	55.731	55.676	55.713	55.687	55.795	—	—	1
2	—	—	—	55.707 A	55.737 A	55.731	55.688	55.714	55.688	55.811	—	—	2
3	—	—	—	55.704	55.735 E	55.727	55.696	55.718	55.687	55.817	—	—	3
4	—	—	—	55.703	55.736 E	55.722	55.819	55.718	55.687	55.813	—	—	4
5	—	—	—	55.705	55.737 A	55.718	55.805	55.718	55.684	55.808	—	—	5
6	—	—	—	55.706	55.733	55.714	55.797	55.717	55.682	55.804	—	—	6
7	—	—	—	55.714	55.727	55.725	55.776	55.714	55.680	55.950	—	—	7
8	—	—	—	55.717	55.726	55.724	55.760	55.717	55.680	55.877	—	—	8
9	—	—	—	55.719	55.724	55.734	55.747	55.709	55.680	55.824	—	—	9
10	—	—	—	55.719	55.724	55.756	55.740	55.704	55.681	55.675	—	—	10
11	—	—	—	55.723	55.725	55.757	55.733	55.701	55.681	55.841	—	—	11
12	—	—	—	55.721	55.723	55.761	55.726	55.700	55.681	55.829	—	—	12
13	—	—	—	55.725	55.720	55.747	55.730	55.707	55.684	55.818	—	—	13
14	—	—	—	55.731	55.720	55.744	55.723	55.700	55.681	55.809	—	—	14
15	—	—	—	55.736	55.723	55.738	55.719	55.702	55.674	55.803	—	—	15
16	—	—	—	55.866	55.725	55.734	55.717	55.696	55.674	55.797	—	—	16
17	—	—	—	55.833	55.723	55.729	55.717	55.691	55.673	55.795	—	—	17
18	—	—	—	55.808	55.717	55.723	55.717	55.691	55.672	55.793	—	—	18
19	—	—	—	55.801	55.716	55.719	55.731	55.689	55.670	55.791	—	—	19
20	—	—	—	55.792	55.770	55.715	55.725	55.686	55.668	55.787	—	—	20
21	—	—	—	55.784	55.748	55.716	55.722	55.686	55.668	55.788	—	—	21
22	—	—	—	55.781	55.752	55.715	55.717	55.690	55.666	55.782	—	—	22
23	—	—	—	55.785	55.744	55.710	55.711	55.687	55.680	55.780	—	—	23
24	—	—	—	55.779	55.737	55.709	55.731	55.684	55.669	55.780	—	—	24
25	—	—	—	55.771	55.733	55.705	55.728	55.687	55.685	55.778	—	—	25
26	—	—	—	55.763	55.727	55.698	55.726	55.679	55.686	55.777	—	—	26
27	—	—	—	55.753	55.724	55.696	55.725	55.674	55.689	55.774	—	—	27
28	—	—	—	55.749	55.722	55.690	55.723	55.672	55.751	55.776	—	—	28
29	—		—	55.747	55.716	55.686	55.724	55.673	55.789	55.774	—	—	29
30	—		—	55.742	55.715	55.679	55.722	55.672	55.795	55.772	—	—	30
31	—		—		55.724		55.718	55.673		55.771		—	31
MEAN	—	—	—	55.754	55.734	55.721	55.758	55.696	55.690	55.800	—	—	MEAN
MAX	—	—	—	55.866	55.776	55.757	55.836	55.718	55.795	55.850	—	—	MAX
MIN	—	—	—	55.703	55.715	55.679	55.676	55.672	55.666	55.771	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATIVE TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.866 METRES ON APR 16
MINIMUM DAILY WATER LEVEL, 55.666 METRES ON SEP 22
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.879 METRES AT 0252 ON APR 16

LAKE 305
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	55.746	55.810	55.783	55.759	55.714	55.635	55.622	—	—	1
2	—	—	—	55.751	55.809	55.760	55.760	55.709	55.632	55.625	—	—	2
3	—	—	—	55.750	55.806	55.763	55.769	55.705	55.625	55.625	—	—	3
4	—	—	—	55.758	55.806	55.769	55.797	55.701	55.618	55.624	—	—	4
5	—	—	—	55.762	55.802	55.768	55.801	55.705	55.619	55.633	—	—	5
6	—	—	—	55.768	55.798	55.764	55.795	55.703	55.630	55.634	—	—	6
7	—	—	—	55.775 E	55.796	55.760	55.791	55.694	55.625	55.633	—	—	7
8	—	—	—	55.788 E	55.790	55.756	55.787	55.690	55.625	55.632	—	—	8
9	—	—	—	55.802 E	55.786	55.752	55.781	55.682	55.628	55.631	—	—	9
10	—	—	—	55.819 E	55.789	55.749	55.777	55.677	55.625	55.631	—	—	10
11	—	—	—	55.840 E	55.788	55.745	55.768	55.675	55.617	55.636	—	—	11
12	—	—	—	55.858 E	55.793	55.745	55.760	55.670	55.616	55.635	—	—	12
13	—	—	—	55.848 E	55.804	55.745	55.757	55.665	55.610	55.635	—	—	13
14	—	—	—	55.822 A	55.802	55.796	55.755	55.662	55.609	55.634	—	—	14
15	—	—	—	55.817	55.796	55.821	55.751	55.659	55.605	55.632	—	—	15
16	—	—	—	55.812	55.791	55.834	55.753	55.653	55.608	55.633	—	—	16
17	—	—	—	55.807	55.789	55.818	55.752	55.649	55.611	55.633	—	—	17
18	—	—	—	55.805	55.792	55.807	55.745	55.654	55.617	55.630	—	—	18
19	—	—	—	55.806	55.789	55.797	55.745	55.654	55.613	55.629	—	—	19
20	—	—	—	55.815	55.784	55.780	55.740	55.648	55.613	55.631	—	—	20
21	—	—	—	55.824	55.782	55.787	55.737	55.658	55.615	55.631	—	—	21
22	—	—	—	55.830	55.787	55.791	55.734	55.659	55.613	55.631	—	—	22
23	—	—	—	55.827	55.787	55.789	55.727	55.656	55.610	55.631	—	—	23
24	—	—	—	55.824	55.784	55.786	55.720	55.653	55.609	55.632	—	—	24
25	—	—	—	55.819	55.779	55.779	55.717	55.652	55.607	55.633	—	—	25
26	—	—	—	55.819	55.776	55.772	55.710	55.651	55.608	55.634	—	—	26
27	—	—	—	55.819	55.772	55.765	55.709	55.650	55.606	55.634	—	—	27
28	—	—	—	55.818	55.772	55.761	55.708	55.648	55.608	55.632	—	—	28
29	—		—	55.817	55.770	55.756	55.707	55.645	55.607	55.631	—	—	29
30	—		—	55.815	55.770	55.760	55.704	55.644	55.609	55.630	—	—	30
31	—		—		55.765		55.712	55.639		55.629		—	31
MEAN	—	—	—	55.806	55.789	55.775	55.749	55.669	55.616	55.631	—	—	MEAN
MAX	—	—	—	55.858	55.810	55.834	55.801	55.714	55.635	55.636	—	—	MAX
MIN	—	—	—	55.746	55.765	55.745	55.704	55.639	55.605	55.622	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.858 METRES ON APR 12
MINIMUM DAILY WATER LEVEL, 55.605 METRES ON SEP 26
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.841 METRES AT 0158 ON JUN 16

LAKE 305
MEAN DAILY WATER LEVEL IN METRES FOR 1994

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	55.772 E	55.768	55.715	55.795	55.688	55.571	55.572	——	——	1
2	——	——	——	55.787 E	55.755	55.712	55.792	55.686	55.569	55.571	——	——	2
3	——	——	——	55.801 A	55.761	55.704	55.776	55.682	55.566	55.569	——	——	3
4	——	——	——	55.816	55.758	55.704	55.747	55.678	55.564	55.570	——	——	4
5	——	——	——	55.810	55.753	55.724	55.746	55.673	55.564	55.570	——	——	5
6	——	——	——	55.837	55.752	55.726	55.742	55.669	55.563	55.567	——	——	6
7	——	——	——	55.833	55.754	55.747	55.736	55.662	55.563	55.568	——	——	7
8	——	——	——	55.815	55.745	55.768	55.733	55.660	55.575	55.569	——	——	8
9	——	——	——	55.826	55.734	55.780	55.730	55.656	55.569	55.570	——	——	9
10	——	——	——	55.821	55.765	55.752	55.731	55.648	55.585	55.565	——	——	10
11	——	——	——	55.814	55.777	55.786	55.725	55.644	55.595	55.567	——	——	11
12	——	——	——	55.809	55.771	55.795	55.721	55.640	55.590	55.568	——	——	12
13	——	——	——	55.801	55.773	55.779	55.719	55.636	55.592	55.571	——	——	13
14	——	——	——	55.791	55.767	55.760	55.716	55.636	55.592	55.568	——	——	14
15	——	——	——	55.791	55.764	55.785	55.729	55.633	55.594	55.610	——	——	15
16	——	——	——	55.796	55.769	55.786	55.728	55.627	55.588	55.617	——	——	16
17	——	——	——	55.795	55.769	55.791	55.729	55.624	55.583	55.710	——	——	17
18	——	——	——	55.789	55.749	55.777	55.724	55.620	55.583	55.748	——	——	18
19	——	——	——	55.781	55.750	55.771	55.720	55.614	55.583	55.808	——	——	19
20	——	——	——	55.774	55.749	55.756	55.716	55.616	55.581	55.846	——	——	20
21	——	——	——	55.776	55.761	55.764	55.715	55.619	55.580	55.844	——	——	21
22	——	——	——	55.776	55.749	55.771	55.717	55.616	55.578	55.876	——	——	22
23	——	——	——	55.778	55.745	55.768	55.714	55.615	55.579	55.926	——	——	23
24	——	——	——	55.772	55.741	55.758	55.708	55.612	55.572	55.821	——	——	24
25	——	——	——	55.769	55.759	55.756	55.704	55.608	55.575	55.815	——	——	25
26	——	——	——	55.763	55.734	55.761	55.700	55.605	55.574	55.810	——	——	26
27	——	——	——	55.769	55.732	55.769	55.696	55.601	55.576	55.808	——	——	27
28	——	——	——	55.779	55.732	55.765	55.691	55.597	55.574	55.807	——	——	28
29	——	——	——	55.777	55.724	55.764	55.686	55.590	55.572	55.803	——	——	29
30	——	——	——	55.769	55.723	55.758	55.688	55.586	55.574	55.800	——	——	30
31	——	——	——		55.718		55.691	55.580		55.797		——	31
MEAN	——	——	——	55.793	55.752	55.761	55.722	55.633	55.578	55.687	——	——	MEAN
MAX	——	——	——	55.837	55.777	55.795	55.756	55.688	55.594	55.846	——	——	MAX
MIN	——	——	——	55.763	55.718	55.704	55.686	55.580	55.563	55.565	——	——	MIN

NOTES

—— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATIVE TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.846 METRES ON OCT 20
MINIMUM DAILY WATER LEVEL, 55.565 METRES ON OCT 15
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.848 METRES AT 1505 ON OCT 20

LAKE 305
MEAN DAILY WATER LEVEL IN METRES FOR 1995

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	55.802 E	55.805	55.766	55.817	55.685	55.777 E	55.792	——	——	1
2	——	——	——	——	55.801	55.764	55.809	55.682	—— N	55.791	——	——	2
3	——	——	——	——	55.794	55.760	55.804	55.676	—— N	55.791	——	——	3
4	——	——	——	55.802	55.815	55.756	55.797	55.685	55.797	55.790	55.770 A	——	4
5	——	——	——	55.800	55.824	55.752	55.791	55.686	55.797	55.787	——	——	5
6	——	——	——	55.794	55.829	55.747	55.786	55.684	55.796	55.786	——	——	6
7	——	——	——	55.792	55.837	55.747	55.780	55.682	55.794	55.790	——	——	7
8	——	——	——	55.790	55.824	55.747	55.775	55.675	55.787	55.809	——	——	8
9	——	——	——	55.787	55.814	55.745	55.766	55.669	55.782	55.806	——	——	9
10	——	——	——	55.785	55.812	55.738	55.756	55.664	55.776	55.805	——	——	10
11	——	——	——	55.786	55.835	55.735	55.749	55.662	55.773	55.80	——	——	11
12	——	——	——	55.806	55.855	55.733	55.746	55.669	55.772	55.82	——	——	12
13	——	——	——	55.805	55.866	55.734	55.744	55.694	55.764	—— N	——	——	13
14	——	——	——	55.808	55.846	55.728	55.741	55.702	55.762	—— N	——	——	14
15	——	——	——	55.813	55.851	55.731	55.735	55.702	55.762	—— N	——	——	15
16	——	——	——	55.809	55.851	55.743	55.729	55.702	55.762	—— N	——	——	16
17	——	——	——	55.801	55.841	55.762	55.724	55.774	55.762	—— N	——	——	17
18	——	——	——	55.788	55.829	55.764	55.729	55.812	55.762	—— N	——	——	18
19	——	——	——	55.797	55.817	55.761	55.734	55.813	55.877	—— N	——	——	19
20	——	——	——	55.800	55.807	55.758	55.730	55.807	55.895	—— N	——	——	20
21	——	——	——	55.849	55.800	55.767	55.722	55.799	55.893	—— N	——	——	21
22	——	——	——	55.924	55.796	55.843	55.715	55.805	55.844	—— N	——	——	22
23	——	——	——	55.863	55.788	55.856	55.719	55.814	55.825	—— N	——	——	23
24	——	——	——	55.853	55.783	55.823	55.720	55.810	55.815	—— N	——	——	24
25	——	——	——	55.848	55.776	55.819	55.715	55.804	55.810	—— N	——	——	25
26	——	——	——	55.842	55.772	55.819	55.711	55.796	55.809	—— N	——	——	26
27	——	——	——	55.853	55.766	55.825	55.681	55.793	55.800	—— N	——	——	27
28	——	——	——	55.824	55.758	55.857	55.705	55.787	55.800	—— N	——	——	28
29	——	——	——	55.816	55.765	55.859	55.696	55.785	55.799	—— N	——	——	29
30	——	——	——	55.813	55.764	55.825	55.694	—— N	55.795	—— N	——	——	30
31	——	——	——		55.770		55.692	—— N		—— N		——	31
MEAN	——	——	——	55.816	55.810	55.773	55.742	55.725	55.798	——	——	——	MEAN
MAX	——	——	——	55.924	55.866	55.843	55.817	55.814	55.895	——	——	——	MAX
MIN	——	——	——	55.785	55.758	55.728	55.681	55.662	55.762	——	——	——	MIN

NOTES

—— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
N MISSING RECORD
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATIVE TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.924 METRES ON APR 22
MINIMUM DAILY WATER LEVEL, 55.662 METRES ON AUG 11
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.995 METRES AT 2030 ON APR21

LAKE 305
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	55.837	55.810	55.660	55.595	55.581	55.569	55.651	55.684	—	1
2	—	—	—	55.854	55.805	55.655	55.586	55.582	55.581	55.657	55.682	—	2
3	—	—	—	55.822	55.795	55.650	55.581	55.582	55.614	55.664	55.682 A	—	3
4	—	—	—	55.801	55.774	55.645	55.584	55.585	55.629	55.665	—	—	4
5	—	—	—	55.817	55.795	55.640	55.616	55.586	55.631	55.667	—	—	5
6	—	—	—	55.791	55.782 A	55.636	55.622	55.591	55.629	55.669	—	—	6
7	—	—	—	55.808	55.795 E	55.636	55.617	55.587	55.627	55.675	—	—	7
8	—	—	—	55.800	55.784 E	55.629	55.614	55.592	55.626	55.677	—	—	8
9	—	—	—	55.779	55.778 E	55.624	55.613	55.591	55.624	55.678	—	—	9
10	—	—	—	55.784	55.772 E	55.621 A	55.610	55.590	55.620	55.680	—	—	10
11	—	—	—	55.777	55.768 E	55.618 E	55.615	55.586	55.618	55.685	—	—	11
12	—	—	—	55.799	55.762 E	55.615 E	55.619	55.589	55.621	55.686	—	—	12
13	—	—	—	55.788	55.757 E	55.612 E	55.619	55.581	55.620	55.685	—	—	13
14	—	—	—	55.786	55.751 E	55.609 E	55.618	55.580	55.619	55.686	—	—	14
15	—	—	—	55.757	55.743 E	55.606 E	55.617	55.579	55.616	55.686	—	—	15
16	—	—	—	55.754	55.733 E	55.602 E	55.617	55.602	55.614	55.687	—	—	16
17	—	—	—	55.751	55.724 E	55.599 A	55.617	55.598	55.622	55.687	—	—	17
18	—	—	—	55.751	55.729 E	— N	55.614	55.593	55.626	55.687	—	—	18
19	—	—	—	55.744	55.729 E	— N	55.619	55.606	55.626	55.687	—	—	19
20	—	—	—	55.737	55.718 E	— N	55.617	55.602	55.626	55.687	—	—	20
21	—	—	—	55.739	55.712 E	— N	55.612	55.596	55.626	55.687	—	—	21
22	—	—	—	55.726	55.707 E	— N	55.608	55.593	55.636	55.687	—	—	22
23	—	—	—	55.730	55.701 E	— N	55.606	55.588	55.639	55.688	—	—	23
24	—	—	—	55.774	55.695 E	55.590 A	55.604	55.586	55.638	55.687	—	—	24
25	—	—	—	55.783	55.690 E	— N	55.600	55.588	55.642	55.687	—	—	25
26	—	—	—	55.782	55.685 A	— N	55.595	55.584	55.645	55.687	—	—	26
27	—	—	55.701	55.799	55.690 E	— N	55.596	55.578	55.649	55.687	—	—	27
28	—	—	55.700	55.855	55.676 E	55.609 A	55.594	55.575	55.650	55.687	—	—	28
29	—		55.708	55.844	55.673	55.604 E	55.593	55.572	55.650	55.685	—	—	29
30	—		55.759	55.815	55.668	55.599 E	55.590	55.571	55.652	55.684	—	—	30
31	—		55.807		55.664		55.582	55.570		55.685		—	31
MEAN	—	—	—	55.792	55.738	—	55.606	55.586	55.626	55.681	—	—	MEAN
MAX	—	—	—	55.855	55.810	—	55.622	55.602	55.652	55.688	—	—	MAX
MIN	—	—	—	55.751	55.664	—	55.581	55.570	55.569	55.651	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
E ESTIMATED VALUE
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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.855 METRES ON APR 28
MINIMUM DAILY WATER LEVEL, 55.569 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.862 METRES AT 10:59 ON APR 28

LAKE 303
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	55.749	55.695	55.728	55.655	55.614	55.595	55.551	----	----	1
2	----	----	----	55.747	55.691	55.726	55.657	55.612	55.590	55.547	----	----	2
3	----	----	----	55.742	55.687	55.718	55.654	55.608	55.586	55.544	----	----	3
4	----	----	----	55.736	55.683	55.716	55.650	55.602	55.584	55.542	----	----	4
5	----	----	----	55.735	55.681	55.714	55.646	55.598	55.582	55.547	----	----	5
6	----	----	----	55.742	55.679	55.712	55.643	55.601	55.580	55.548	----	----	6
7	----	----	----	55.751	55.676	55.711	55.640	55.600	55.578	55.543	----	----	7
8	----	----	----	55.757	55.674	55.704	55.635	55.598	55.578	55.543	----	----	8
9	----	----	----	55.760	55.672	55.699	55.629	55.595	55.574	55.551	----	----	9
10	----	----	----	55.759	55.669	55.698	55.625	55.590	55.573	55.547	----	----	10
11	----	----	----	55.756	55.666	55.733	55.621	55.601	55.573	55.545	----	----	11
12	----	----	----	55.752	55.661	55.738	55.626	55.626	55.578	55.544	----	----	12
13	----	----	----	55.748	55.664	55.733	55.625	55.624	55.577	55.544	----	----	13
14	----	----	----	55.743	55.670	55.727	55.621	55.621	55.575	55.543	----	----	14
15	----	----	----	55.739	55.666	55.719	55.622	55.622	55.573	55.542	----	----	15
16	----	----	----	55.737	55.667	55.713	55.625	55.635	55.571	55.542	----	----	16
17	----	----	----	55.735	55.667	55.708	55.626	55.634	55.571	55.541	----	----	17
18	----	----	----	55.734	55.661	55.700	55.623	55.631	55.569	55.540	----	----	18
19	----	----	----	55.733	55.657	55.695	55.628	55.629	55.570	55.539	----	----	19
20	----	----	----	55.730	55.655	55.689	55.629	55.626	55.567	55.540	----	----	20
21	----	----	----	55.726	55.698	55.686	55.628	55.622	55.565	55.540	----	----	21
22	----	----	----	55.723	55.725	55.687	55.630	55.617	55.562	55.540	----	----	22
23	----	----	----	55.720	55.731	55.681	55.630	55.612	55.558	55.541	----	----	23
24	----	----	----	55.718	55.730	55.675	55.626	55.609	55.555	55.543	----	----	24
25	----	----	----	55.715	55.729	55.670	55.622	55.607	55.552	55.542	----	----	25
26	----	----	----	55.714	55.742	55.669	55.620	55.606	55.551	55.544	----	----	26
27	----	----	----	55.710	55.749	55.668	55.617	55.603	55.548	55.547	----	----	27
28	----	----	----	55.706	55.749	55.664	55.612	55.600	55.550	55.547	----	----	28
29	----		----	55.702	55.743	55.661	55.607	55.600	55.552	55.548 A	----	----	29
30	----		----	55.697	55.736	55.657	55.602	55.604	55.549	55.548 E	----	----	30
31	----		55.750 A		55.729		55.610	55.599		55.548 E		----	31
MEAN	----	----	----	55.734	55.693	55.700	55.629	55.611	55.569	55.544	----	----	MEAN
MAX	----	----	----	55.760	55.749	55.738	55.657	55.635	55.595	55.551	----	----	MAX
MIN	----	----	----	55.697	55.655	55.657	55.602	55.580	55.548	55.539	----	----	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 55.760 METRES ON APR 09
MINIMUM DAILY WATER LEVEL, 55.539 METRES ON OCT 19
MAXIMUM INSTANTANEOUS WATER LEVEL, 55.762 METRES AT 14:32 ON APR 09

LAKE ICE
MEAN DAILY WATER LEVEL IN METRES FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	53.645 E	53.762	53.685	53.500	53.519	53.487	53.956	—	—	
2	—	—	—	53.649 A	53.755	53.673	53.515	53.518	53.490	53.569	—	—	1
3	—	—	—	53.645 E	53.746	53.625	53.644	53.525	53.490	53.571	—	—	2
4	—	—	—	53.640 E	53.744	53.594	53.627	53.525	53.491	53.565	—	—	3
5	—	—	—	53.635 E	53.744	53.577	53.609	53.524	53.487	53.559	—	—	4
													5
6	—	—	—	53.636 E	53.741	53.568	53.595	53.522	53.484	53.556	—	—	
7	—	—	—	53.637 A	53.732	53.573	53.575	53.520	53.482	53.604	—	—	6
8	—	—	—	53.638	53.723	53.561	53.563	53.518	53.483	53.595	—	—	7
9	—	—	—	53.639	53.718	53.562	53.553	53.513	53.484	53.578	—	—	8
10	—	—	—	53.639	53.715	53.576	53.546	53.508	53.485	53.568	—	—	9
													10
11	—	—	—	53.641	53.714	53.571	53.540	53.506	53.484	53.597	—	—	
12	—	—	—	53.640	53.710	53.564	53.539	53.504	53.487	53.582	—	—	11
13	—	—	—	53.645	53.703	53.556	53.541	53.506	53.487	53.572	—	—	12
14	—	—	—	53.684	53.636	53.561	53.538	53.504	53.484	53.562	—	—	13
15	—	—	—	53.789	53.701	53.548	53.537	53.503	53.482	53.555	—	—	14
													15
16	—	—	—	53.792	53.700	53.545	53.534	53.501	53.480	53.548	—	—	
17	—	—	—	53.933	53.727	53.544	53.557	53.497	53.478	53.548	—	—	15
18	—	—	—	53.905	53.736	53.539	53.556	53.496	53.477	53.545	—	—	17
19	—	—	—	53.890	53.755	53.533	53.549	53.496	53.475	53.540	—	—	18
20	—	—	—	53.884	53.756	53.532	53.540	53.492	53.475	53.541	—	—	19
													20
21	—	—	—	53.876	53.749	53.534	53.535	53.492	53.472	53.538	—	—	
22	—	—	—	53.862	53.741	53.530	53.529	53.493	53.472	53.537	—	—	21
23	—	—	—	53.856	53.729	53.527	53.529	53.492	53.485	53.535	—	—	22
24	—	—	—	53.849	53.725	53.525	53.547	53.489	53.493	53.525	—	—	23
25	—	—	—	53.835	53.711	53.521	53.543	53.486	53.495	53.533	—	—	24
													25
26	—	—	—	53.822	53.703	53.521	53.537	53.484	53.492	53.525	—	—	
27	—	—	—	53.809	53.695	53.515	53.531	53.480	53.495	53.533	—	—	26
28	—	—	—	53.796	53.687	53.511	53.528	53.476	53.547	53.535	—	—	27
29	—		—	53.782	53.678	53.506	53.525	53.476	53.567	53.534	—	—	28
30	—		—	53.772	53.671	53.503	53.524	53.473	53.562	53.533	—	—	29
31	—		—		53.675		53.523	53.475		53.533	—	—	30
													31
MEAN	—	—	—	53.754	53.720	53.556	53.549	53.500	53.491	53.555	—	—	MEAN
MAX	—	—	—	53.933	53.762	53.685	53.644	53.525	53.567	53.604	—	—	MAX
MIN	—	—	—	53.635	53.671	53.503	53.500	53.473	53.472	53.533	—	—	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 53.933 METRES ON APR 17
MINIMUM DAILY WATER LEVEL, 53.472 METRES ON SEP 21
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.955 METRES AT 1822 ON 53.955

LAKE ICE
MEAN DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	53.536	53.537	53.520	53.517	53.469	53.401	53.950	53.397	—	
2	—	—	—	53.537	53.539	53.518	53.515	53.465	53.399	53.394	—	—	1
3	—	—	—	53.539	53.531	53.520	53.524	53.463	53.396	53.395	—	—	2
4	—	—	—	53.539	53.532	53.531	53.537	53.461	53.388	53.392	—	—	3
5	—	—	—	53.540	53.532	53.529	53.536	53.464	53.389	53.400	—	—	4
													5
6	—	—	—	53.542	53.531	53.525	53.533	53.463	53.405	53.399	—	—	
7	—	—	—	53.546	53.528	53.520	53.529	53.458	53.400	53.400	—	—	6
8	—	—	—	53.553	53.524	53.517	53.529	53.450	53.398	53.397	—	—	7
9	—	—	—	53.567	53.520	53.512	53.523	53.446	53.399	53.396	—	—	8
10	—	—	—	53.579	53.518	53.511	53.517	53.444	53.395	53.395	—	—	9
													10
11	—	—	—	53.584	53.518	53.509	53.514	53.442	53.389	53.400	—	—	
12	—	—	—	53.588	53.526	53.508	53.507	53.436	53.384	53.402	—	—	11
13	—	—	—	53.580	53.538	53.511	53.506	53.430	53.380	53.400	—	—	12
14	—	—	—	53.572	53.536	53.568	53.506	53.428	53.378	53.401	—	—	13
15	—	—	—	53.569	53.531	53.587	53.502	53.422	53.378	53.401	—	—	14
													15
16	—	—	—	53.566	53.528	53.591	53.501	53.417	53.379	53.401	—	—	
17	—	—	—	53.566	53.528	53.576	53.500	53.411	53.380	53.401	—	—	16
18	—	—	—	53.560	53.530	53.558	53.497	53.413	53.392	53.401	—	—	17
19	—	—	—	53.551	53.528	53.545	53.495	53.415	53.387	53.397	—	—	18
20	—	—	—	53.548	53.528	53.538	53.492	53.409	53.385	53.400	—	—	19
													20
21	—	—	—	53.595	53.525	53.532	53.489	53.420	53.384	53.397	—	—	
22	—	—	—	53.560	53.531	53.539	53.487	53.426	53.379	53.396	—	—	21
23	—	—	—	53.557	53.533	53.535	53.481	53.422	53.380	53.395	—	—	22
24	—	—	—	53.552	53.531	53.532	53.476	53.419	53.377	53.396	—	—	23
25	—	—	—	53.551	53.526	53.528	53.473	53.417	53.374	53.398	—	—	24
													25
26	—	—	—	53.548	53.524	53.525	53.469	53.413	53.371	53.399	—	—	
27	—	—	—	53.547	53.525	53.518	53.464	53.411	53.371	53.399	—	—	26
28	—	—	—	53.545	53.524	53.513	53.466	53.410	53.372	53.396	—	—	27
29	—		—	53.539	53.524	53.511	53.464	53.408	53.370	53.395	—	—	28
30	—		—	53.538	53.524	53.516	53.460	53.405	53.374	53.397	—	—	29
31	—		—		53.521		53.468	53.405		53.397	—	—	30
													31
MEAN	—	—	—	53.555	53.528	53.531	53.499	53.431	53.386	53.398	—	—	MEAN
MAX	—	—	—	53.588	53.538	53.591	53.537	53.469	53.405	53.402	—	—	MAX
MIN	—	—	—	53.536	53.518	53.508	53.460	53.405	53.370	53.950	—	—	MIN

NOTES

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E ESTIMATED VALUE
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SUMMARY FOR THE MONTHS APRIL TO OCTOBER

MAXIMUM DAILY WATER LEVEL, 53.591 METRES ON JUN 16
MINIMUM DAILY WATER LEVEL, 53.370 METRES ON SEP 29
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.600 METRES AT 1820 ON JUN 15

LAKE 'X4
MEAN DAILY WATER LEVEL IN METRES FOR 1994

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	53.624 B	53.520	53.496	53.521	53.468	53.343	53.544	—	—	1
2	—	—	—	53.636 B	53.520	53.492	53.520	53.463	53.344	53.343	—	—	2
3	—	—	—	53.648 A	53.518	53.487	53.522	53.460	53.340	53.342	—	—	3
4	—	—	—	53.663	53.515	53.484	53.518	53.456	53.344	53.342	—	—	4
5	—	—	—	53.692	53.512	53.505	53.515	53.456	53.341	53.357	—	—	5
6	—	—	—	53.616	53.512	53.511	53.512	53.449	53.339	53.339	—	—	6
7	—	—	—	53.601	53.525	53.530	53.508	53.443	53.341	53.359	—	—	7
8	—	—	—	53.593	53.527	53.547	53.505	53.439	53.356	53.336	—	—	8
9	—	—	—	53.582	53.524	53.566	53.501	53.435	53.362	53.335	—	—	9
10	—	—	—	53.574	53.523	53.564	53.498	53.427	53.364	53.334	—	—	10
11	—	—	—	53.566	53.526	53.560	53.495	53.425	53.368	53.336	—	—	11
12	—	—	—	53.556	53.530	53.556	53.491	53.416	53.368	53.338	—	—	12
13	—	—	—	53.546	53.536	53.566	53.487	53.416	53.368	53.338	—	—	13
14	—	—	—	53.542	53.537	53.561	53.506	53.416	53.365	53.362	—	—	14
15	—	—	—	53.536	53.523	53.552	53.500	53.414	53.363	53.377	—	—	15
16	—	—	—	53.532	53.518	53.551	53.499	53.409	53.360	53.387	—	—	16
17	—	—	—	53.526	53.520	53.547	53.498	53.405	53.358	53.460	—	—	17
18	—	—	—	53.522	53.519	53.541	53.497	53.398	53.358	53.454	—	—	18
19	—	—	—	53.527	53.516	53.537	53.492	53.398	53.356	53.544	—	—	19
20	—	—	—	53.524	53.516	53.532	53.488	53.395	53.353	53.597	—	—	20
21	—	—	—	53.523	53.522	53.532	53.486	53.400	53.354	53.613	—	—	21
22	—	—	—	53.520	53.521	53.534	53.486	53.396	53.352	53.614	—	—	22
23	—	—	—	53.522	53.519	53.531	53.485	53.391	53.347	53.604	—	—	23
24	—	—	—	53.520	53.518	53.527	53.479	53.386	53.348	53.592	—	—	24
25	—	—	—	53.519	53.514	53.521	53.476	53.381	53.352	53.582	—	—	25
26	—	—	—	53.517	53.514	53.528	53.473	53.379	53.350	53.576	—	—	26
27	—	—	—	53.524	53.510	53.530	53.469	53.377	53.352	53.572	—	—	27
28	—	—	—	53.531	53.506	53.534	53.465	53.373	53.350	53.571	—	—	28
29	—		—	53.528	53.504	53.528	53.461	53.365	53.347	53.568	—	—	29
30	—		—	53.520	53.503	53.524	53.463	53.357	53.348	53.566	—	—	30
31	—		—		53.499		53.468	53.350		53.565		—	31
MEAN	—	—	—	53.559	53.517	53.533	53.493	53.411	53.353	53.453	—	—	MEAN
MAX	—	—	—	53.663	53.528	53.566	53.522	53.468	53.368	53.614	—	—	MAX
MIN	—	—	—	53.517	53.499	53.484	53.461	53.350	53.339	53.334	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
WATER LEVELS ARE IN METRES
TYPE OF GAUGE IS RECORDING
WATER LEVELS ARE RELATED TO AN ASSUMED DATUM

SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 53.663 METRES ON APR 4
MINIMUM DAILY WATER LEVEL, 53.334 METRES ON OCT 10
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.672 METRES AT 1158 ON APR 4

LAKE 'X4
MEAN DAILY WATER LEVEL IN METRES FOR 1995

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	—	—	—	—	53.538	53.521	53.553	53.437	53.525	53.519	— N	—	1
2	—	—	—	—	53.531	53.516	53.545	53.431	53.531	53.515	— N	—	2
3	—	—	—	53.565 A	53.527	53.513	53.541	53.430	53.542	53.514	— N	—	3
4	—	—	—	— N	53.543	53.509	53.533	53.439	53.545	53.513	53.500 A	—	4
5	—	—	—	— N	53.553	53.504	53.527	53.440	53.548	53.511	—	—	5
6	—	—	—	— N	53.556	53.505	53.524	53.440	53.545	53.511	—	—	6
7	—	—	—	— N	53.559	53.500	53.518	53.438	53.541	53.514	—	—	7
8	—	—	—	— N	53.554	53.499	53.514	53.431	53.534	53.528	—	—	8
9	—	—	—	— N	53.547	53.499	53.507	53.428	53.533	53.540	—	—	9
10	—	—	—	53.567 A	53.539	53.493	53.408	53.422	53.529	53.539	—	—	10
11	—	—	—	— N	53.563	53.490	53.484	53.419	53.524	— N	—	—	11
12	—	—	—	— N	53.590	53.490	53.492	53.425	53.522	— N	—	—	12
13	—	—	—	— N	53.614	53.491	53.492	53.451	53.522	— N	—	—	13
14	—	—	—	— N	53.590	53.490	53.490	53.458	53.521	— N	—	—	14
15	—	—	—	— N	53.586	53.492	53.482	53.462	53.520	— N	—	—	15
16	—	—	—	— N	53.610	53.507	53.480	53.459	53.521	— N	—	—	16
17	—	—	—	53.568 A	53.588	53.524	53.473	53.525	53.521	— N	—	—	17
18	—	—	—	— N	53.572	53.529	53.479	53.553	53.521	— N	—	—	18
19	—	—	—	— N	53.561	53.525	53.480	53.558	53.638	— N	—	—	19
20	—	—	—	— N	53.548	53.524	53.472	53.554	53.649	— N	—	—	20
21	—	—	—	— N	53.542	53.530	53.467	53.549	53.613	— N	—	—	21
22	—	—	—	— N	53.537	53.587	53.462	53.552	53.588	— N	—	—	22
23	—	—	—	— N	53.534	53.587	53.466	53.561	53.564	— N	—	—	23
24	—	—	—	— N	53.526	53.576	53.467	53.555	53.552	— N	—	—	24
25	—	—	—	— N	53.525	53.566	53.462	53.552	53.544	— N	—	—	25
26	—	—	—	— N	53.519	53.565	53.460	53.545	53.536	— N	—	—	26
27	—	—	—	— N	53.515	53.566	53.456	53.541	53.531	— N	—	—	27
28	—	—	—	— N	53.511	53.577	53.450	53.535	53.538	— N	—	—	28
29	—		—	— N	53.513	53.573	53.448	53.531	53.522	— N	—	—	29
30	—		—	— N	53.524	53.565	53.441	53.526	53.521	— N	—	—	30
31	—		—		53.525		53.439	53.526		— N		—	31
MEAN	—	—	—	—	53.550	53.527	53.484	53.489	53.544	—	—	—	MEAN
MAX	—	—	—	—	53.614	53.587	53.553	53.561	53.649	—	—	—	MAX
MIN	—	—	—	—	53.511	53.490	53.408	53.419	53.520	—	—	—	MIN

NOTES

— NO DATA OR NOT APPLICABLE
A MANUAL GAUGE READING
B ESTIMATED VALUE
N MISSING RECORD
WATER LEVELS ARE IN METRES
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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 53.649 METRES ON SEP 20
MINIMUM DAILY WATER LEVEL, 53.408 METRES ON JUL 10
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.665 METRES AT 1500 ON SEP19

LAKE 304
MEAN DAILY WATER LEVEL IN METRES FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	——	——	——	——	53.613	53.453	53.395	53.399	53.368	53.456	53.478	——	1
2	——	——	——	——	53.596	53.450	53.394	53.398	53.381	53.463	53.476	——	2
3	——	——	——	——	53.580	53.448	—— R	53.397	53.415	53.468	53.476 A	——	3
4	——	——	——	——	53.568	53.444	—— R	53.397	53.428	53.470	——	——	4
5	——	——	——	53.587	53.588	53.441	—— R	53.398	53.429	53.470	——	——	5
6	——	——	——	53.581	53.588 A	53.439	—— R	53.395	53.426	53.469	——	——	6
7	——	——	——	53.575	53.582 E	53.432	53.425 A	53.398	53.424	53.474	——	——	7
8	——	——	——	53.570	53.577 E	53.433	53.421	53.400	53.421	53.475	——	——	8
9	——	——	——	53.561	53.574 E	53.430	53.415 E	53.397	53.420	53.474	——	——	9
10	——	——	——	53.553	53.566 E	53.427	—— R	53.394	53.418	53.474	——	——	10
11	——	——	——	53.547	53.560 E	53.425	—— R	53.390	53.417	53.477	——	——	11
12	——	——	——	53.542	53.554 E	53.419	—— R	53.386	53.419	53.477	——	——	12
13	——	——	——	53.538	53.549 E	53.412	—— R	53.384	53.419	53.477	——	——	13
14	——	——	——	53.534	53.547 E	53.409	53.426 A	53.389	53.416	53.478	——	——	14
15	——	——	——	53.530	53.536 E	53.405	—— R	53.394	53.414	53.478	——	——	15
16	——	——	——	53.527	53.532 E	53.404	—— R	53.404	53.412	53.478	——	——	16
17	——	——	——	53.524	53.526 E	53.406	—— R	53.400	53.417	53.479	——	——	17
18	——	——	——	53.522	53.521 E	53.396	—— R	53.397	53.422	53.480	——	——	18
19	——	——	——	53.541	53.516 E	53.393	53.422	53.398	53.421	53.480	——	——	19
20	——	——	——	53.561	53.510 E	53.399	53.426	53.403	53.421	53.481	——	——	20
21	——	——	——	53.558	53.504 E	53.407	53.422	53.398	53.422	53.485	——	——	21
22	——	——	——	53.552	53.498 E	53.405	53.418	53.396	53.434	53.484	——	——	22
23	——	——	——	53.548	53.493 E	53.400	53.418	53.395	53.435	53.484	——	——	23
24	——	——	——	53.542	53.487 E	53.397	53.416	53.392	53.435	53.484	——	——	24
25	——	——	——	53.540	53.482 E	53.405	53.412	53.392	53.440	53.484	——	——	25
26	——	——	——	53.568	53.477 A	53.414	53.408	53.387	53.444	53.483	——	——	26
27	——	——	——	53.584	53.474	53.412	53.407	53.382	53.449	53.483	——	——	27
28	——	——	——	53.647	53.471	53.405	53.408	53.378	53.452	53.482	——	——	28
29	——	——	——	53.642	53.466	53.399	53.409	53.374	53.453	53.480	——	——	29
30	——	——	——	53.611	53.460	53.396	53.408	53.373	53.456	53.478	——	——	30
31	——		——		53.456		53.400	53.371		53.480		——	31
MEAN	——	——	——	——	53.531	53.417	——	53.392	53.424	53.477	——	——	MEAN
MAX	——	——	——	——	53.613	53.453	——	53.404	53.456	53.484	——	——	MAX
MIN	——	——	——	——	53.456	53.393	——	53.371	53.368	53.456	——	——	MIN

NOTES

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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 53.647 METRES ON APR 28
MINIMUM DAILY WATER LEVEL, 53.368 METRES ON SEP 01
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.664 METRES AT 21:57 ON APR 28

LAKE 304
MEAN DAILY WATER LEVEL IN METRES FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	53.538	53.494	53.529	53.468	53.437	53.408	53.367	----	----	1
2	----	----	----	53.538	53.490	53.530	53.472	53.434	53.406	53.361	----	----	2
3	----	----	----	53.541	53.487	53.525	53.470	53.432	53.402	53.358	----	----	3
4	----	----	----	53.550	53.482	53.523	53.468	53.426	53.400	53.356	----	----	4
5	----	----	----	53.552	53.482	53.521	53.465	53.422	53.399	53.361	----	----	5
6	----	----	----	53.546	53.480	53.521	53.462	53.427	53.398	53.360	----	----	6
7	----	----	----	53.537	53.477	53.520	53.459	53.426	53.396	53.357	----	----	7
8	----	----	----	53.530	53.474	53.514	53.453	53.423	53.395	53.358	----	----	8
9	----	----	----	53.526	53.470	53.511	53.448	53.420	53.392	53.364	----	----	9
10	----	----	----	53.525	53.466	53.508	53.444	53.415	53.391	53.363	----	----	10
11	----	----	----	53.528	53.462	53.543	53.440	53.427	53.390	53.363	----	----	11
12	----	----	----	53.531	53.457	53.543	53.445	53.449	53.391	53.363	----	----	12
13	----	----	----	53.535	53.462	53.538	53.446	53.446	53.391	53.361	----	----	13
14	----	----	----	53.538	53.467	53.531	53.443	53.442	53.388	53.360	----	----	14
15	----	----	----	53.540	53.466	53.524	53.443	53.442	53.386	53.359	----	----	15
16	----	----	----	53.537	53.467	53.519	53.443	53.453	53.384	53.356	----	----	16
17	----	----	----	53.535	53.468	53.514	53.444	53.452	53.380	53.358	----	----	17
18	----	----	----	53.532	53.465	53.508	53.444	53.450	53.380	53.357	----	----	18
19	----	----	----	53.531	53.463	53.503	53.444	53.447	53.381	53.356	----	----	19
20	----	----	----	53.528	53.462	53.497	53.445	53.443	53.379	53.356	----	----	20
21	----	----	----	53.526	53.503	53.495	53.445	53.440	53.378	53.355	----	----	21
22	----	----	----	53.523	53.531	53.496	53.448	53.433	53.377	53.355	----	----	22
23	----	----	----	53.519	53.533	53.492	53.449	53.429	53.373	53.356	----	----	23
24	----	----	----	53.517	53.533	53.487	53.446	53.426	53.370	53.356	----	----	24
25	----	----	----	53.514	53.532	53.482	53.442	53.423	53.367	53.353	----	----	25
26	----	----	----	53.512	53.544	53.480	53.440	53.421	53.364	53.358	----	----	26
27	----	----	----	53.506	53.549	53.479	53.437	53.418	53.362	53.363	----	----	27
28	----	----	----	53.505	53.550	53.476	53.433	53.416	53.364	53.362	----	----	28
29	----		----	53.500	53.543	53.472	53.429	53.416	53.369	53.362 A	----	----	29
30	----		----	53.496	53.536	53.468	53.423	53.419	53.366	53.362 E	----	----	30
31	----		53.538 A		53.531		53.433	53.414		53.362 E		----	31
MEAN	----	----	----	53.528	53.494	53.508	53.447	53.431	53.384	53.359	----	----	MEAN
MAX	----	----	----	53.552	53.550	53.543	53.472	53.453	53.408	53.367	----	----	MAX
MIN	----	----	----	53.496	53.457	53.468	53.423	53.414	53.362	53.353	----	----	MIN

NOTES

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E ESTIMATED VALUE
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SUMMARY FOR THE YEAR

MAXIMUM DAILY WATER LEVEL, 53.552 METRES ON APR 05
MINIMUM DAILY WATER LEVEL, 53.353 METRES ON OCT 25
MAXIMUM INSTANTANEOUS WATER LEVEL, 53.552 METRES AT 12:32 ON APR 06

LAKE 382 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000 E	----	0.0000 E	0.0302	0.0134 D	0.0437	0.0025	0.0000	0.0000	0.0000	----	----	1
2	----	----	0.0000 E	0.0295	0.0134 D	0.0442	0.0034	0.0000	0.0000	0.0000	----	----	2
3	----	----	0.0000 E	0.0283	0.0134 D	0.0391	0.0023	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0000 E	0.0271	0.0272 D	0.0360	0.0009 C	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0000 A	0.0269	0.0385	0.0322	0.0006 D	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0000 E	0.0272 D	0.0330	0.0296	0.0006	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0000 E	0.0288 D	0.0294	0.0267	0.0003	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0000 E	0.0064 D	0.0281	0.0230	0.0001	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0000 E	0.0064 D	0.0250	0.0194	0.0000	0.0000	0.0000	0.0000	----	0.0000 A	9
10	----	----	0.0000 E	0.0064 D	0.0241	0.0184	0.0000	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0000 E	0.0064 D	0.0217	0.0274	0.0000	0.0002	0.0000	0.0000	----	----	11
12	----	----	0.0000 E	0.0064 D	0.0134 D	0.0274	0.0000	0.0007	0.0000	0.0000	----	----	12
13	----	----	0.0000 E	0.0064 D	0.0134 D	0.0264	0.0000	0.0006	0.0000	0.0000	----	----	13
14	----	----	0.0000 E	0.0064 D	0.0134 D	0.0239	0.0000	0.0008	0.0000	0.0000	----	----	14
15	----	----	0.0000 E	0.0064 D	0.0134 D	0.0223	0.0000	0.0014	0.0000	0.0000	----	----	15
16	----	----	0.0000 E	0.0064 D	0.0168 D	0.0203	0.0002	0.0048	0.0000	0.0000	----	----	16
17	----	0.0000 A	0.0000 E	0.0064 D	0.0180	0.0183	0.0000	0.0042	0.0000	0.0000	----	----	17
18	----	----	0.0000 E	0.0064 D	0.0169	0.0157	0.0000	0.0035	0.0000	0.0000	----	----	18
19	----	----	0.0000 E	0.0064 D	0.0146	0.0141	0.0000	0.0025	0.0000	0.0000	----	----	19
20	0.0000 A	----	0.0000 E	0.0064 D	0.0137	0.0066 D	0.0000	0.0013	0.0000	0.0000	----	----	20
21	----	----	0.0000 E	0.0064 D	0.0269	0.0060 D	0.0000	0.0005	0.0000	0.0000	----	----	21
22	----	----	0.0048 E	0.0064 D	0.0134 D	0.0060 D	0.0000	0.0002	0.0000	0.0000	----	----	22
23	----	----	0.0095 E	0.0064 D	0.0134 D	0.0103	0.0000	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0144 A	0.0064 D	0.0134 D	0.0081	0.0000	0.0000	0.0000	0.0000	----	----	24
25	----	----	0.0193	0.0064 D	0.0288 D	0.0067	0.0000	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0229	0.0064 D	0.0435	0.0038 D	0.0000	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0268	0.0064 D	0.0447	0.0036 D	0.0000	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0291	0.0372 D	0.0457	0.0028 D	0.0000	0.0000	0.0000	0.0000	----	----	28
29	----		0.0304	0.0789	0.0427	0.0025 D	0.0000	0.0000	0.0000	0.0000	----	----	29
30	----		0.0309	0.0705	0.0404	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	30
31	----		0.0304		0.0395		0.0000	0.0000		0.0000		0.0000 E	31
TOTAL	----	----	0.2185	0.5126	0.7532	0.5669	0.0109	0.0207	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0070	0.0171	0.0243	0.0189	0.0004	0.0007	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0309	0.0789	0.0457	0.0442	0.0034	0.0048	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0000	0.0064	0.0134	0.0025	0.0000	0.0000	0.0000	0.0000	----	----	MIN

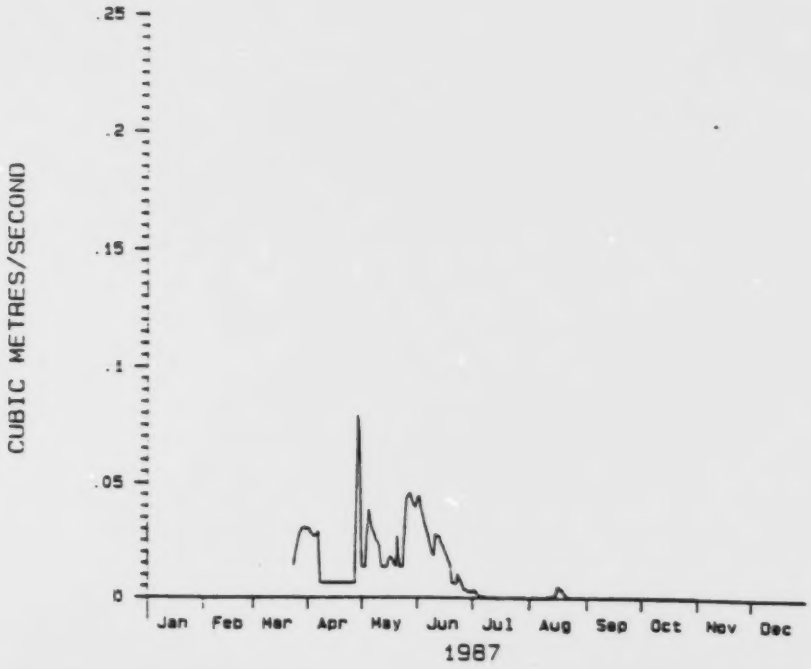
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	18878	44289	65076	48980	942	1788	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	179954	CUBIC METRES
MEAN DISCHARGE.	0.0085	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0789	CUBIC METRES/SEC ON APR 29
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON JUL 09
MAX INSTANTANEOUS FLOW.	M	CUBIC METRES/SEC ON M

D BEAVER DAM IN NOTCH, FLOWS ARE BEST ESTIMATES ONLY
A MANUAL OBSERVATION, NON RECORDED VALUE
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0049	0.0041	0.0021	0.0041	0.0264	0.0192	0.0023	0.0065	0.0014	0.0345	0.0114	0.0112	1
2	0.0046	0.0035	0.0018	0.0048	0.0332	0.0208	0.0043	0.0066	0.0015	0.0482	0.0112	0.0107	2
3	0.0049	0.0034	0.0016	0.0063	0.0282	0.0213	0.0824	0.0082	0.0013	0.0667	0.0104	0.0111	3
4	0.0049	0.0031	0.0015	0.0063	0.0282	0.0256	0.1370	0.0065	0.0011	0.0709	0.0097	0.0115	4
5	0.0050	0.0032	0.0015	0.0060	0.0311	0.0228	0.1890	0.0050	0.0008	0.0646	0.0090	0.0113	5
6	0.0049	0.0031	0.0015	0.0064	0.0300	0.0222	0.1600	0.0041	0.0005	0.0554	0.0089	0.0111	6
7	0.0049	0.0031	0.0013	0.0058	0.0279	0.0243	0.1250	0.0014	0.0005	0.1240	0.0082	0.0099	7
8	0.0049	0.0029	0.0010	0.0058	0.0265	0.0237	0.0907	0.0012	0.0005	0.1590	0.0077	0.0092	8
9	0.0047	0.0030	0.0010	0.0057	0.0224	0.0268	0.0655	0.0021	0.0004	0.1250	0.0066	0.0076	9
10	0.0045	0.0024	0.0013	0.0061	0.0208	0.0415	0.0492	0.0015	0.0004	0.1190	0.0068	0.0066	10
11	0.0031	0.0024	0.0013	0.0062	0.0197	0.0454	0.0397	0.0012	0.0007	0.1440	0.0068	0.0059	11
12	0.0030	0.0021	0.0016	0.0064	0.0184	0.0470	0.0315	0.0011	0.0004	0.1290	0.0065	0.0060	12
13	0.0029	0.0019	0.0012	0.0065	0.0170	0.0784	0.0287	0.0014	0.0005	0.1000	0.0067	0.0048	13
14	0.0028	0.0019	0.0026	0.0177	0.0169	0.0746	0.0251	0.0011	0.0004	0.0758	0.0062	0.0041	14
15	0.0029	0.0018	0.0022	0.0741	0.0171	0.0700	0.0247	0.0011	0.0002	0.0589	0.0060	0.0036	15
16	0.0031	0.0010	0.0020	0.4410	0.0190	0.0269	0.0228	0.0004	0.0002	0.0468	0.0055	0.0029	16
17	0.0031	0.0029	0.0022	0.4580	0.0238	0.0253	0.0292	0.0000	0.0002	0.0402	0.0049	0.0024	17
18	0.0028	0.0031	0.0025	0.2720	0.0423	0.0207	0.0332	0.0000	0.0001	0.0355	0.0049	0.0033	18
19	0.0030	0.0024	0.0023	0.1900	0.0708	0.0182	0.0332	0.0000	0.0004	0.0313	0.0048	0.0027	19
20	0.0028	0.0025	0.0022	0.1520	0.0717	0.0159	0.0315	0.0000	0.0000	0.0272	0.0076	0.0027	20
21	0.0027	0.0025	0.0022	0.1260	0.0613	0.0148	0.0287	0.0000	0.0000	0.0240	0.0110	0.0027	21
22	0.0044	0.0018	0.0020	0.1250	0.0501	0.0136	0.0244	0.0000	0.0000	0.0219	0.0138	0.0029	22
23	0.0061	0.0023	0.0020	0.1290	0.0403	0.0128	0.0215	0.0000	0.0002	0.0197	0.0161	0.0031	23
24	0.0061	0.0017	0.0024	0.1210	0.0346	0.0111	0.0241	0.0001	0.0013	0.0174	0.0171	0.0031	24
25	0.0062	0.0018	0.0022	0.1040	0.0290	0.0102	0.0225	0.0003	0.0029	0.0161	0.0164	0.0029	25
26	0.0062	0.0017	0.0021	0.0840	0.0248	0.0092	0.0201	0.0001	0.0027	0.0150	0.0157	0.0024	26
27	0.0057	0.0015	0.0019	0.0671	0.0220	0.0085	0.0175	0.0000	0.0027	0.0141	0.0146	0.0024	27
28	0.0054	0.0018	0.0019	0.0539	0.0196	0.0071	0.0153	0.0000	0.0120	0.0141	0.0134	0.0021	28
29	0.0049		0.0020	0.0466	0.0177	0.0062	0.0137	0.0000	0.0222	0.0135	0.0122	0.0019	29
30	0.0049		0.0021	0.0413	0.0149	0.0038	0.0126	0.0000	0.0922	0.0137	0.0112	0.0016	30
31	0.0044		0.0040		0.0158		0.0103	0.0000		0.0124		0.0015	31
TOTAL	0.1347	0.0685	0.0620	2.5804	0.9300	0.6409	1.4727	0.0539	0.0910	1.7273	0.2914	0.1662	TOTAL
MEAN	0.0043	0.0024	0.0020	0.0860	0.0300	0.0214	0.0475	0.0017	0.0030	0.0560	0.0097	0.0054	MEAN
MAX	0.0062	0.0041	0.0040	0.4580	0.0717	0.0454	0.1890	0.0082	0.0922	0.1590	0.0171	0.0115	MAX
MIN	0.0027	0.0010	0.0010	0.0041	0.0149	0.0038	0.0023	0.0000	0.0000	0.0124	0.0048	0.0015	MIN

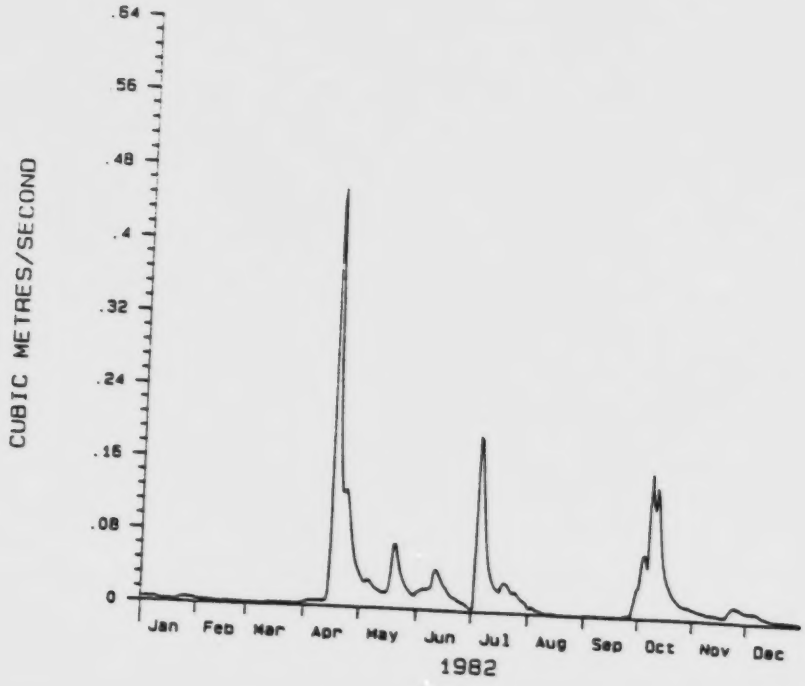
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
11638	5918	5357	222947	80352	55374	127241	4657	7862	150103	25177	14360

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	710986	CUBIC METRES	
MEAN DISCHARGE,	0.0225	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.4580	CUBIC METRES/SEC ON	APR 17
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	AUG 17
MAX INSTANTANEOUS FLOW,	0.6450	CUBIC METRES/SEC ON	APR 16

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0017	0.0020	0.0019	0.0095	0.0009	0.0088	0.0073	0.0012	0.0000	0.0000	0.0000	0.0040	1
2	0.0016	0.0019	0.0018	0.0126	0.0000	0.0071	0.0068	0.0009	0.0000	0.0000	0.0000	0.0039	2
3	0.0016	0.0019	0.0022	0.0128	0.0000	0.0080	0.0088	0.0008	0.0000	0.0000	0.0000	0.0026	3
4	0.0019	0.0019 E	0.0022	0.0127	0.0000	0.0101	0.0172	0.0004	0.0000	0.0000	0.0000	0.0025	4
5	0.0017	0.0017 E	0.0024	0.0151	0.0000	0.0102	0.0243	0.0008	0.0000	0.0000	0.0000	0.0022	5
6	0.0015	0.0016 E	0.0022	0.0181	0.0000	0.0112	0.0258	0.0007	0.0000	0.0000	0.0000	0.0023	6
7	0.0016	0.0016 E	0.0045	0.0194	0.0000	0.0129	0.0233	0.0007	0.0000	0.0000	0.0000	0.0021	7
8	0.0016	0.0015	0.0049	0.0249	0.0000	0.0100	0.0134	0.0000	0.0000	0.0000	0.0000	0.0018	8
9	0.0044	0.0015	0.0048	0.0274	0.0000	0.0085	0.0103	0.0000	0.0000	0.0000	0.0000	0.0017	9
10	0.0051	0.0011	0.0043	0.0620	0.0000	0.0070	0.0127	0.0000	0.0000	0.0000	0.0007	0.0017	10
11	0.0039	0.0012	0.0043	0.1010	0.0000	0.0061	0.0095	0.0000	0.0000	0.0000	0.0010	0.0018	11
12	0.0035	0.0019	0.0037	0.1450	0.0000	0.0047	0.0068	0.0000	0.0000	0.0000	0.0004	0.0020	12
13	0.0030	0.0021	0.0042	0.1580	0.0595	0.0041	0.0060	0.0000	0.0000	0.0000	0.0000	0.0018	13
14	0.0036	0.0016	0.0039	0.1310	0.0792	0.0250	0.0047	0.0000	0.0000	0.0000	0.0000	0.0020	14
15	0.0034	0.0016	0.0034	0.0955	0.0538	0.0592	0.0040	0.0000	0.0000	0.0000	0.0000	0.0019	15
16	0.0033	0.0017	0.0035	0.0730	0.0362	0.1010	0.0046	0.0000	0.0000	0.0000	0.0000	0.0020	16
17	0.0030	0.0014	0.0032	0.0580	0.0285	0.0940	0.0034	0.0000	0.0000	0.0000	0.0000	0.0021	17
18	0.0029	0.0020	0.0033	0.0483	0.0248	0.0693	0.0027	0.0000	0.0000	0.0000	0.0000	0.0019	18
19	0.0032	0.0029	0.0034	0.0455	0.0224	0.0503	0.0027	0.0000	0.0000	0.0000	0.0000	0.0015 E	19
20	0.0032	0.0026	0.0029	0.0511	0.0187	0.0370	0.0024	0.0000	0.0000	0.0000	0.0002	0.0012 E	20
21	0.0030	0.0023	0.0027	0.0642	0.0165	0.0282	0.0020	0.0000	0.0000	0.0000	0.0014	0.0011 E	21
22	0.0029	0.0019	0.0024	0.0801	0.0184	0.0268	0.0015	0.0000	0.0000	0.0000	0.0020	0.0010 E	22
23	0.0031	0.0019	0.0024	0.0785	0.0193	0.0251	0.0009	0.0000	0.0000	0.0000	0.0029	0.0012	23
24	0.0031	0.0015	0.0023	0.0729	0.0201	0.0232	0.0008	0.0000	0.0000	0.0000	0.0044	0.0050	24
25	0.0028	0.0015	0.0025	0.0677	0.0172	0.0190	0.0006	0.0000	0.0000	0.0000	0.0052	0.0018	25
26	0.0027	0.0015	0.0025	0.0612	0.0149	0.0151	0.0000	0.0000	0.0000	0.0000	0.0051	0.0021	26
27	0.0026	0.0021	0.0027	0.0523	0.0131	0.0119	0.0000	0.0000	0.0000	0.0000	0.0042	0.0021	27
28	0.0026	0.0025	0.0026	0.0497	0.0129	0.0086	0.0000	0.0000	0.0000	0.0000	0.0039	0.0019	28
29	0.0022		0.0025	0.0474	0.0128	0.0073	0.0000	0.0000	0.0000	0.0000	0.0052	0.0023	29
30	0.0020		0.0022	0.0437	0.0114	0.0081	0.0005	0.0000	0.0000	0.0000	0.0061	0.0029	30
31	0.0021		0.0056		0.0099		0.0011	0.0000		0.0000		0.0056	31
TOTAL	0.0848	0.0506	0.0994	1.7484	0.4905	0.7178	0.2151	0.0051	0.0000	0.0000	0.0427	0.0679	TOTAL
MEAN	0.0027	0.0018	0.0032	0.0583	0.0158	0.0239	0.0069	0.0002	0.0000	0.0000	0.0014	0.0022	MEAN
MAX	0.0051	0.0029	0.0056	0.1580	0.0792	0.1010	0.0258	0.0012	0.0000	0.0000	0.0061	0.0050	MAX
MIN	0.0015	0.0011	0.0018	0.0093	0.0000	0.0041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	MIN

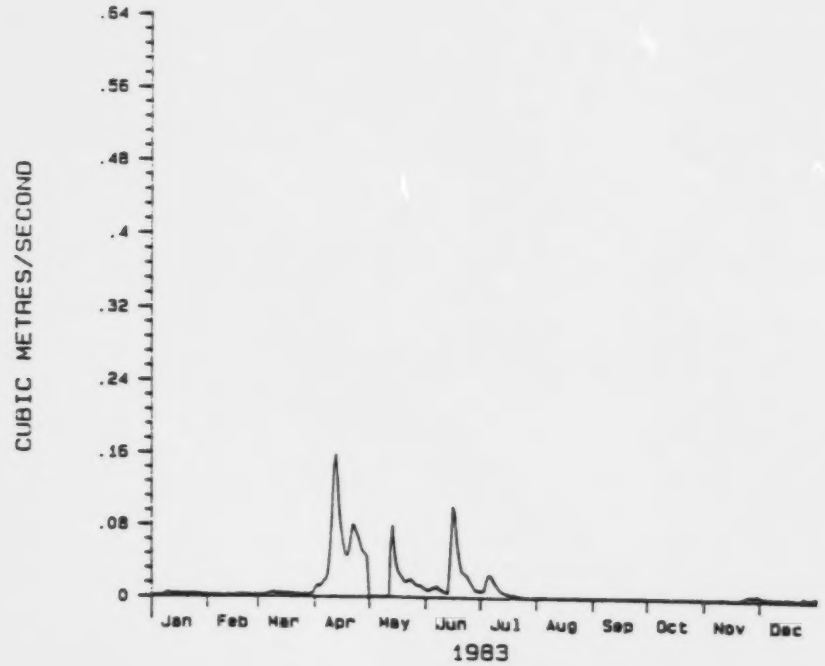
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
7327	4372	8588	151062	42379	62018	18585	441	0	0	3689	5867

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	304327	CUBIC METRES		
MEAN DISCHARGE,	0.0097	CUBIC METRES/SEC		
MAX DAILY DISCHARGE,	0.1580	CUBIC METRES/SEC	ON APR 13	
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON FEB 4	
MAX INSTANTANEOUS FLOW,	0.1630	CUBIC METRES/SEC	ON APR 13	

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0032	0.0013	0.0017	0.0118	0.0194	0.0050	0.0122	0.0000	0.0000	0.0000	0.0332	0.0208	1
2	0.0028	0.0013	0.0016	0.0159	0.0189	0.0038	0.0115	0.0000	0.0000	0.0000	0.0293	0.0197	2
3	0.0017	0.0013	0.0018	0.0225	0.0170	0.0028	0.0112	0.0000	0.0000	0.0000	0.0264	0.0184	3
4	0.0014	0.0014	0.0015	0.0395	0.0141	0.0024	0.0097	0.0000	0.0000	0.0000	0.0242	0.0169	4
5	0.0014	0.0011	0.0016	0.0683	0.0124	0.0044	0.0091	0.0000	0.0000	0.0000	0.0217	0.0151	5
6	0.0015	0.0011	0.0015 A	0.1210	0.0118	0.0046	0.0081	0.0000	0.0000	0.0000	0.0192	0.0143	6
7	0.0019	0.0010	0.0014 A	0.1550	0.0066	0.0071	0.0071	0.0000	0.0000	0.0000	0.0175	0.0129	7
8	0.0147	0.0010	0.0012	0.1600	0.0031	0.0066	0.0065	0.0000	0.0000	0.0000	0.0175	0.0115	8
9	0.0192	0.0009	0.0011	0.1500	0.0045	0.0188	0.0057	0.0000	0.0000	0.0000	0.0175	0.0106	9
10	0.0234	0.0010	0.0011	0.1380	0.0062	0.0390	0.0048	0.0000	0.0000	0.0000	0.0170	0.0099	10
11	0.0243	0.0011	0.0008 A	0.1220	0.0079	0.0381	0.0039	0.0000	0.0000	0.0000	0.0166	0.0093	11
12	0.0240	0.0011	0.0008 A	0.1120	0.0088	0.0763	0.0031	0.0000	0.0000	0.0000	0.0161	0.0092	12
13	0.0201	0.0014	0.0006	0.0975	0.0113	0.0788	0.0075	0.0000	0.0000	0.0000	0.0155	0.0086	13
14	0.0161	0.0015	0.0007	0.0804	0.0185	0.0403	0.0039	0.0000	0.0000	0.0000	0.0156	0.0072	14
15	0.0159	0.0016	0.0011	0.0712	0.0227	0.0385	0.0033	0.0000	0.0000	0.0000	0.0162	0.0065	15
16	0.0166	0.0036	0.0010	0.0593	0.0214	0.0377	0.0031	0.0000	0.0000	0.0000	0.0170	0.0087	16
17	0.0154	0.0045	0.0009	0.0479	0.0200	0.0339	0.0028	0.0000	0.0000	0.0009	0.0172	0.0093	17
18	0.0146	0.0039	0.0009	0.0405	0.0165	0.0306	0.0021	0.0000	0.0000	0.0091	0.0169	0.0091	18
19	0.0113	0.0034	0.0010	0.0337	0.0150	0.0265	0.0018	0.0000	0.0000	0.0249	0.0164	0.0084	19
20	0.0084	0.0032	0.0009	0.0285	0.0140	0.0234	0.0013	0.0000	0.0000	0.0482	0.0152	0.0080	20
21	0.0067	0.0030	0.0008	0.0257	0.0132	0.0208	0.0012	0.0000	0.0000	0.0697	0.0144	0.0077	21
22	0.0053	0.0029	0.0008	0.0189	0.0121	0.0208	0.0013	0.0000	0.0000	0.0741	0.0137	0.0072	22
23	0.0042	0.0025	0.0008	0.0165	0.0111	0.0188	0.0009	0.0000	0.0000	0.0725	0.0133	0.0064	23
24	0.0031	0.0024	0.0009	0.0147	0.0099	0.0158	0.0007	0.0000	0.0000	0.0687	0.0125	0.0059	24
25	0.0026	0.0023	0.0010	0.0124	0.0089	0.0141	0.0004	0.0000	0.0000	0.0634	0.0116	0.0056	25
26	0.0021	0.0021	0.0011	0.0113	0.0081	0.0144	0.0000	0.0000	0.0000	0.0590	0.0120	0.0054	26
27	0.0016	0.0021	0.0014	0.0141	0.0072	0.0162	0.0000	0.0000	0.0000	0.0535	0.0135	0.0049	27
28	0.0022	0.0018	0.0020	0.0185	0.0067	0.0151	0.0000	0.0000	0.0000	0.0486	0.0161	0.0050	28
29	0.0017	0.0017	0.0027	0.0203	0.0061	0.0149	0.0000	0.0000	0.0000	0.0446	0.0184	0.0053	29
30	0.0014		0.0038	0.0195	0.0056	0.0139	0.0000	0.0000	0.0000	0.0401	0.0200	0.0051	30
31	0.0016		0.0072		0.0053		0.0000	0.0000		0.0359		0.0046	31
TOTAL	0.2859	0.0575	0.0457	1.7447	0.3643	0.6034	0.1192	0.0000	0.0000	0.7130	0.5317	0.2975	TOTAL
MEAN	0.0096	0.0020	0.0015	0.0582	0.0118	0.0201	0.0038	0.0000	0.0000	0.0230	0.0177	0.0096	MEAN
MAX	0.0334	0.0045	0.0072	0.1600	0.0227	0.0403	0.0122	0.0000	0.0000	0.0741	0.0332	0.0208	MAX
MIN	0.0013	0.0009	0.0006	0.0113	0.0031	0.0024	0.0000	0.0000	0.0000	0.0000	0.0116	0.0046	MIN

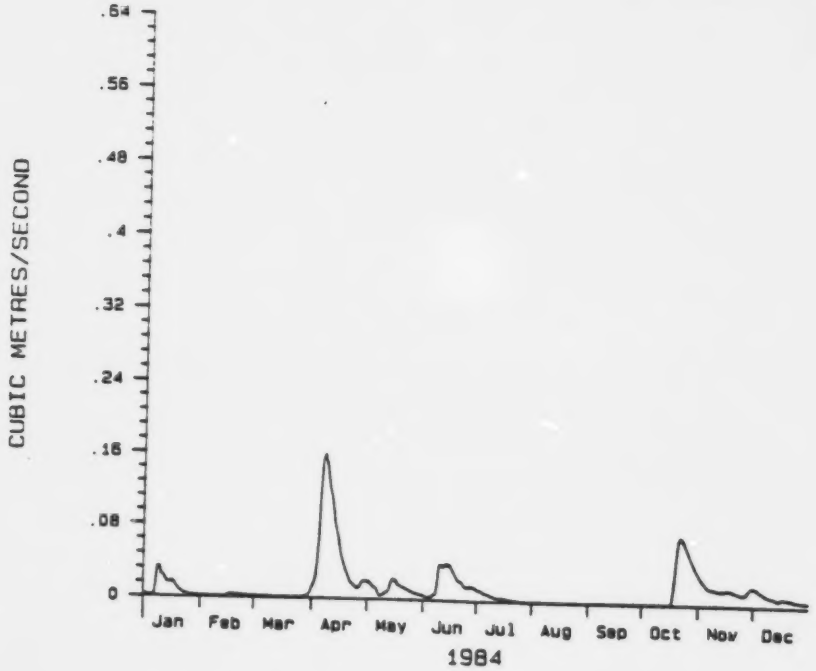
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
25566	4968	3948	150742	31476	52134	10299	0	0	61603	45939	25701

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	412575	CUBIC METRES
MEAN DISCHARGE,	0.0131	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1600	CUBIC METRES/SEC ON APR 8
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUL 26
MAX INSTANTANEOUS FLOW,	0.1640	CUBIC METRES/SEC ON APR 8

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0042	0.0025	0.0014	0.0108	0.0641	0.0178	0.0656	0.0000	0.0122	0.0254	0.0098	0.0049	1
2	0.0034	0.0020	0.0014	0.0146	0.0522	0.0159	0.0541	0.0000	0.0122	0.0221	0.0090	0.0047	2
3	0.0032	0.0023	0.0013	0.0258	0.0432	0.0143	0.0449	0.0000	0.0143	0.0201	0.0079	0.0052	3
4	0.0030	0.0018	0.0014	0.0326	0.0479	0.0134	0.0356	0.0000	0.0149	0.0169	0.0070	0.0058	4
5	0.0033	0.0039	0.0012	0.0331	0.0620	0.0156	0.0293	0.0000	0.0156	0.0156	0.0068	0.0050	5
6	0.0030	0.0012	0.0014	0.0331	0.0670	0.0140	0.0253	0.0000	0.0153	0.0149	0.0070	0.0049	6
7	0.0033	0.0010	0.0018	0.0322	0.0767	0.0131	0.0201	0.0000	0.0146	0.0143	0.0070	0.0058	7
8	0.0033	0.0008	0.0016	0.0299	0.0752	0.0111	0.0159	0.0000	0.0122	0.0173	0.0066	0.0070	8
9	0.0030	0.0012	0.0011	0.0254	0.0721	0.0103	0.0134	0.0000	0.0111	0.0173	0.0060	0.0074	9
10	0.0028	0.0014	0.0010	0.0245	0.0648	0.0092	0.0100	0.0000	0.0095	0.0173	0.0049	0.0081	10
11	0.0026	0.0012	0.0010	0.0259	0.0584	0.0084	0.0072	0.0000	0.0074	0.0176	0.0047	0.0089	11
12	0.0026	0.0010	0.0010	0.0346	0.1055	0.0080	0.0054	0.0001	0.0064	0.0241	0.0047	0.0079	12
13	0.0029	0.0010	0.0010	0.0393	0.1392	0.0082	0.0049	0.0049	0.0047	0.0277	0.0045	0.0076	13
14	0.0026	0.0010	0.0010	0.0455	0.1674	0.0090	0.0039	0.0060	0.0037	0.0285	0.0042	0.0081	14
15	0.0026	0.0010	0.0010	0.0515	0.1458	0.0092	0.0028	0.0047	0.0037	0.0528	0.0037	0.0076	15
16	0.0025	0.0012	0.0010	0.0567	0.1907	0.0085	0.0017	0.0034	0.0042	0.0515	0.0036	0.0070	16
17	0.0026	0.0011	0.0010	0.0567	0.1662	0.0140	0.0014	0.0198	0.0045	0.0497	0.0034	0.0040	17
18	0.0026	0.0010	0.0011	0.0541	0.1268	0.0153	0.0022	0.0317	0.0036	0.0443	0.0039	0.0000	18
19	0.0026	0.0010	0.0012	0.0497	0.0991	0.0143	0.0039	0.0362	0.0879	0.0377	0.0076	0.0000	19
20	0.0019	0.0010	0.0013	0.0491	0.0806	0.0140	0.0022	0.0367	0.2480	0.0531	0.0068	0.0000	20
21	0.0015	0.0010	0.0013	0.0947	0.0670	0.0156	0.0015	0.0346	0.2115	0.0298	0.0062	0.0000	21
22	0.0014	0.0010	0.0016	0.5878 C	0.0528	0.0573	0.0008	0.0326	0.1524	0.0262	0.0062	0.0000	22
23	0.0017	0.0010	0.0019	0.4138 C	0.0410	0.0896	0.0012	0.0336	0.1120	0.0280	0.0064	0.0000	23
24	0.0016	0.0010	0.0028	0.3085	0.0331	0.0905	0.0016	0.0346	0.0888	0.0205	0.0062	0.0000	24
25	0.0014	0.0014	0.0040	0.2375	0.0262	0.0798	0.0010	0.0322	0.0736	0.0176	0.0058	0.0000	25
26	0.0016	0.0018	0.0070	0.1831	0.0209	0.0744	0.0008	0.0331	0.0627	0.0156	0.0066	0.0000	26
27	0.0018	0.0016	0.0090	0.1436	0.0173	0.0684	0.0005	0.0249	0.0528	0.0140	0.0060	0.0000	27
28	0.0018	0.0017	0.0103	0.1139	0.0143	0.0790	0.0003	0.0209	0.0438	0.0134	0.0060	0.0000	28
29	0.0018		0.0100	0.0913	0.0153	0.0830	0.0001	0.0180	0.0362	0.0122	0.0058	0.0000	29
30	0.0018		0.0100	0.0767	0.0180	0.0767	0.0000	0.0149	0.0303	0.0114	0.0054	0.0000	30
31	0.0020		0.0100		0.0173	0.0830	0.0000	0.0140		0.0103		0.0000	31
TOTAL	0.0762	0.0389	0.0921	2.9749	2.2321	1.0256	0.3556	0.4369	1.3701	0.7772	0.1797	0.1095	TOTAL
MEAN	0.0025	0.0014	0.0030	0.0992	0.0779	0.0331	0.0115	0.0141	0.0457	0.0251	0.0060	0.0035	MEAN
MAX	0.0042	0.0039	0.0103	0.5878	0.1952	0.0905	0.0656	0.0367	0.2480	0.0528	0.0098	0.0089	MAX
MIN	0.0014	0.0008	0.0010	0.0108	0.0143	0.0050	0.0000	0.0000	0.0036	0.0103	0.0034	0.0000	MIN

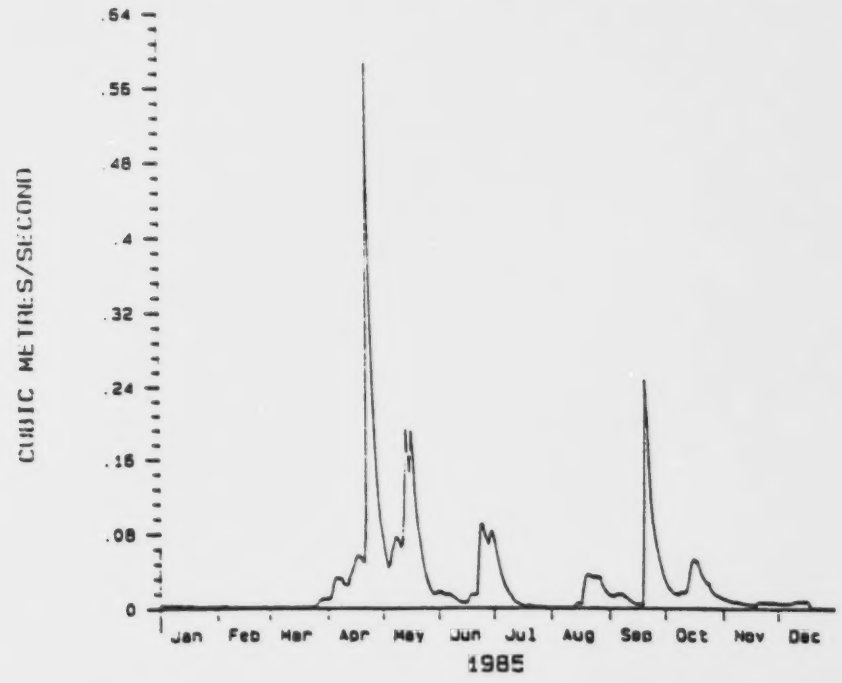
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
6584	3361	7957	257031	192737	88614	30724	37748	118377	67150	15526	9461

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	840570	CUBIC METRES	
MEAN DISCHARGE,	0.0256	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.5878 C	CUBIC METRES/SEC	ON APR 22
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC	ON JUL 30
MAX INSTANTANEOUS FLOW,	0.6657 C	CUBIC METRES/SEC	ON APR 22

A MANUAL OBSERVATION, NON RECORDED VALUE
C FLOW EXCEEDED STATION CAPACITY BUT DID NOT TOP WALL, TREAT AS ESTIMATED VALUE
E ESTIMATED VALUE
— NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0000	0.0002	0.0014	0.0926	0.1960	0.0005	0.0000	0.0000	0.0000	0.0018	0.0004	0.0075	1
2	0.0000	0.0003	0.0015	0.1467	0.1649	0.0001	0.0000	0.0000	0.0000	0.0029	0.0004	0.0074	2
3	0.0000	0.0003	0.0016	0.1439	0.1295	0.0000	0.0000	0.0000	0.0072	0.0029	0.0004	0.0073	3
4	0.0000	0.0004	0.0016	0.1424	0.1021	0.0000	0.0000	0.0000	0.0045	0.0026	0.0007	0.0072	4
5	0.0000	0.0004	0.0016	0.1361	0.1050	0.0000	0.0074	0.0000	0.0031	0.0022	0.0011	0.0071	5
6	0.0000	0.0004	0.0017	0.1271	0.1152	0.0000	0.0066	0.0000	0.0026	0.0029	0.0012	0.0028	6
7	0.0000	0.0005	0.0019	0.1117	0.1055	0.0000	0.0019	0.0000	0.0020	0.0033	0.0012	0.0026	7
8	0.0000	0.0006	0.0019	0.0996	0.0911	0.0000	0.0005	0.0000	0.0019	0.0036	0.0040	0.0025	8
9	0.0001	0.0006	0.0019	0.0838	0.0800	0.0000	0.0002	0.0000	0.0011	0.0031	0.0044	0.0026	9
10	0.0011	0.0005	0.0020	0.0789	0.0715	0.0000	0.0001	0.0000	0.0010	0.0030	0.0041	0.0026	10
11	0.0014	0.0005	0.0022	0.0685	0.0632	0.0000	0.0006	0.0000	0.0008	0.0031	0.0039	0.0026	11
12	0.0016	0.0006	0.0022	0.0607	0.0571	0.0000	0.0010	0.0000	0.0012	0.0028	0.0038	0.0024	12
13	0.0016	0.0004	0.0022	0.0539	0.0513	0.0000	0.0009	0.0000	0.0009	0.0026	0.0036	0.0024	13
14	0.0016	0.0006	0.0023	0.0477	0.0459	0.0000	0.0012	0.0000	0.0007	0.0024	0.0035	0.0023	14
15	0.0015	0.0006	0.0023	0.0533	0.0412	0.0000	0.0010	0.0000	0.0005	0.0020	0.0035	0.0022	15
16	0.0016	0.0007	0.0023	0.0245	0.0370	0.0000	0.0007	0.0009	0.0004	0.0020	0.0036	0.0021	16
17	0.0016	0.0006	0.0024	0.0249	0.0326	0.0000	0.0005	0.0000	0.0014	0.0018	0.0036	0.0020	17
18	0.0013	0.0006	0.0025	0.0277	0.0293	0.0000	0.0004	0.0000	0.0019	0.0015	0.0035	0.0019	18
19	0.0014	0.0007	0.0026	0.0281	0.0262	0.0000	0.0003	0.0004	0.0016	0.0011	0.0045	0.0018	19
20	0.0013	0.0007	0.0027	0.0279	0.0213	0.0000	0.0004	0.0007	0.0013	0.0012	0.0063	0.0017	20
21	0.0012	0.0008	0.0029	0.0432	0.0183	0.0000	0.0001	0.0000	0.0014	0.0013	0.0058	0.0016	21
22	0.0011	0.0011	0.0031	0.0444	0.0152	0.0000	0.0000	0.0000	0.0024	0.0011	0.0054	0.0016	22
23	0.0009	0.0010	0.0033	0.0454	0.0123	0.0000	0.0000	0.0000	0.0022	0.0007	0.0051	0.0015	23
24	0.0012	0.0011	0.0037	0.0438	0.0104	0.0000	0.0000	0.0000	0.0015	0.0009	0.0051	0.0016	24
25	0.0012	0.0012	0.0042	0.0427	0.0092	0.0000	0.0000	0.0000	0.0016	0.0011	0.0050	0.0014	25
26	0.0008	0.0013	0.0048	0.0516	0.0078	0.0000	0.0000	0.0000	0.0018	0.0010	0.0047	0.0013	26
27	0.0007	0.0014	0.0051	0.0743	0.0060	0.0000	0.0000	0.0000	0.0018	0.0009	0.0044	0.0013	27
28	0.0006	0.0014	0.0048	0.0746	0.0042	0.0000	0.0000	0.0000	0.0016	0.0009	0.0042	0.0013	28
29	0.0004		0.0059	0.2918	0.0029	0.0000	0.0000	0.0000	0.0020	0.0007	0.0038	0.0013	29
30	0.0007		0.0196	0.2170	0.0018	0.0000	0.0000	0.0000	0.0022	0.0005	0.0037	0.0013	30
31	0.0003		0.0471		0.0010		0.0000	0.0000		0.0006		0.0013	31
TOTAL	0.0242	0.0190	0.1453	2.6171	1.6529	0.0006	0.0194	0.0020	0.0489	0.0595	0.1045	0.0666	TOTAL
MEAN	0.0008	0.0007	0.0047	0.0872	0.0533	0.0000	0.0006	0.0001	0.0016	0.0019	0.0035	0.0021	MEAN
MAX	0.0016	0.0014	0.0471	0.2918	0.1960	0.0005	0.0066	0.0009	0.0045	0.0036	0.0063	0.0035	MAX
MIN	0.0000	0.0002	0.0014	0.0237	0.0010	0.0000	0.0000	0.0000	0.0000	0.0005	0.0002	0.0013	MIN

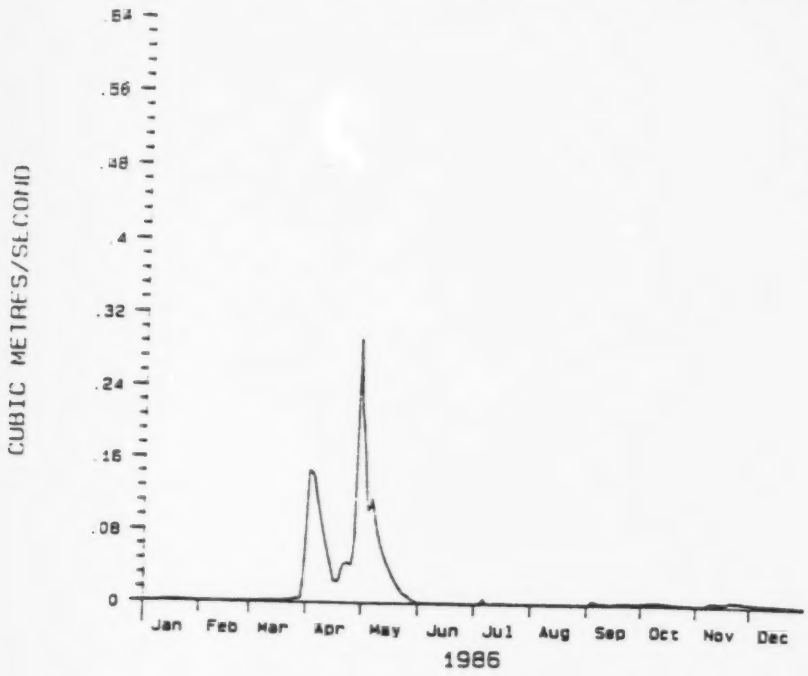
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2097	1642	12554	226117	142811	52	1676	173	4225	5141	9029	5754

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	411264	CUBIC METRES
MEAN DISCHARGE,	0.0130	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.2918	CUBIC METRES/SEC ON APR 29
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JAN 01
MAX INSTANTANEOUS FLOW,	0.3068	CUBIC METRES/SEC ON APR 29

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 470 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0013	0.0000	0.0000	0.0569	0.0045	0.0186	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	1
2	0.0011	0.0000	0.0000	0.0454	0.0043	0.0163	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	2
3	0.0011	0.0000	0.0000	0.0373	0.0035	0.0134	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	3
4	0.0010	0.0000	0.0001	0.0314	0.0028	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4
5	0.0010	0.0000	0.0003	0.0292	0.0024	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5
6	0.0010	0.0000	0.0005	0.0307	0.0018	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6
7	0.0009	0.0000	0.0010	0.0371	0.0014	0.0094	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7
8	0.0009	0.0000	0.0017	0.0423	0.0010	0.0080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8
9	0.0008	0.0000	0.0026	0.0455	0.0007	0.0073	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9
10	0.0009	0.0000	0.0019	0.0457	0.0003	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10
11	0.0008	0.0000	0.0010	0.0441	0.0002	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11
12	0.0008	0.0000	0.0001	0.0421	0.0000	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12
13	0.0008	0.0000	0.0000	0.0380	0.0005	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13
14	0.0008	0.0000	0.0000	0.0337	0.0009	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14
15	0.0001	0.0000	0.0000	0.0304	0.0006	0.0123	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15
16	0.0000	0.0000	0.0000	0.0276	0.0009	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16
17	0.0000	0.0000	0.0000	0.0250	0.0009	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17
18	0.0000	0.0000	0.0000	0.0220	0.0005	0.0104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18
19	0.0000	0.0000	0.0015	0.0205	0.0003	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	19
20	0.0000	0.0000	0.0065	0.0189	0.0004	0.0082	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20
21	0.0000	0.0000	0.0221	0.0163	0.0076	0.0064	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	21
22	0.0000	0.0000	0.0284	0.0152	0.0150	0.0057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	22
23	0.0000	0.0000	0.0349	0.0135	0.0195	0.0044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	23
24	0.0000	0.0000	0.0526	0.0117	0.0211	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	24
25	0.0000	0.0000	0.0723	0.0104	0.0198	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	25
26	0.0000	0.0000	0.0920	0.0092	0.0236	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	26
27	0.0000	0.0000	0.0991	0.0076	0.0270	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	27
28	0.0000	0.0000	0.0959	0.0067	0.0298	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	28
29	0.0000		0.0849	0.0056	0.0307	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	29
30	0.0000		0.0745	0.0049	0.0268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30
31	0.0000		0.0669		0.0224		0.0000	0.0000		0.0000		0.0000	31
TOTAL	0.0133	0.0000	0.7408	0.9049	0.2712	0.2538	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	TOTAL
MEAN	0.0004	0.0000	0.0239	0.0302	0.0087	0.0085	.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MEAN
MAX	0.0013	0.0000	0.0991	0.0569	0.0307	0.0186	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	MAX
MIN	0.0000	0.0000	0.0000	0.0049	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MIN

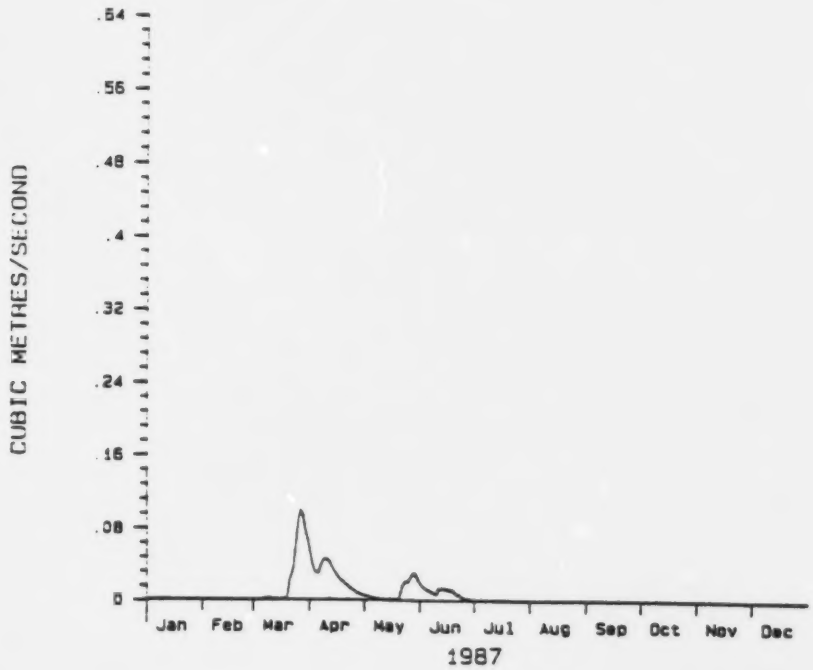
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1149	0	64005	69543	23432	21928	52	0	0	0	0	0

SUMMARY FOR THE MONTHS JANUARY TO DECEMBER

TOTAL DISCHARGE,	180109	CUBIC METRES
MEAN DISCHARGE,	0.0057	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.0991	CUBIC METRES/SEC ON MAR 27
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JAN 16
MAX INSTANTANEOUS FLOW,	0.0997	CUBIC METRES/SEC ON MAR 27

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 661 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0010 E	----	----	0.0045 E	0.0190	0.0047	0.0042	0.0006	0.0000	0.0001	----	----	1
2	----	----	----	0.0049 E	0.0170	0.0045	0.0040	0.0004	0.0000	0.0000	----	----	2
3	----	----	----	0.0058 E	0.0125	0.0046	0.0058	0.0003	0.0000	0.0001	----	----	3
4	----	----	----	0.0060 E	0.0143	0.0063	0.0196	0.0003	0.0000	0.0001	----	----	4
5	----	----	----	0.0071 E	0.0130	0.0070	0.0284	0.0005	0.0000	0.0007	----	----	5
6	----	----	----	0.0089 A	0.0114	0.0060	0.0201	0.0004	0.0000	0.0008	----	----	6
7	----	----	----	0.0104	0.0099	0.0050	0.0145	0.0004	0.0000	0.0005	----	----	7
8	----	----	----	0.0158	0.0092	0.0044	0.0112	0.0003	0.0000	0.0005	----	----	8
9	----	----	----	0.0315	0.0079	0.0038	0.0084	0.0002	0.0000	0.0004	----	----	9
10	----	----	----	0.0594	0.0077	0.0034	0.0062	0.0002	0.0000	0.0004	----	----	10
11	----	----	----	0.0819 C	0.0035	0.0030	0.0046	0.0002	0.0000	0.0004	----	----	11
12	0.0019 A	----	----	0.1000 C	0.0128	0.0026	0.0036	0.0001	0.0000	0.0004	----	----	12
13	----	----	----	0.0887 C	0.0255	0.0026	0.0027	0.0001	0.0000	0.0004	----	----	13
14	----	0.0015 A	----	0.0587	0.0233	0.0319	0.0022	0.0001	0.0000	0.0004	----	0.0009 A	14
15	----	----	0.0023 A	0.0384	0.0168	0.0669	0.0017	0.0000	0.0000	0.0004	----	----	15
16	----	----	----	0.0281	0.0130	0.0829 C	0.0017	0.0000	0.0000	0.0004	----	----	16
17	----	----	----	0.0238	0.0109	0.0515	0.0014	0.0000	0.0000	0.0004	----	----	17
18	----	----	----	0.0220	0.0116	0.0338	0.0014	0.0001	0.0000	0.0003	----	----	18
19	----	----	----	0.0274	0.0108	0.0226	0.0013	0.0000	0.0000	0.0003	----	----	19
20	----	----	----	0.0405	0.0093	0.0170	0.0011	0.0000	0.0000	0.0003	----	----	20
21	----	----	----	0.0538	0.0084	0.0134	0.0010	0.0003	0.0000	0.0003	----	----	21
22	----	----	----	0.0572	0.0122	0.0175	0.0009	0.0002	0.0000	0.0003	----	----	22
23	----	----	----	0.0448	0.0146	0.0172	0.0007	0.0001	0.0000	0.0003	----	----	23
24	----	----	----	0.0372	0.0133	0.0131	0.0006	0.0001	0.0000	0.0004	----	----	24
25	----	----	----	0.0344	0.0107	0.0104	0.0006	0.0001	0.0000	0.0003	----	----	25
26	----	----	----	0.0320	0.0086	0.0083	0.0005	0.0000	0.0000	0.0003	----	----	26
27	----	----	----	0.0310	0.0075	0.0062	0.0005	0.0000	0.0000	0.0004	----	----	27
28	----	----	----	0.0273	0.0071	0.0049	0.0006	0.0000	0.0000	0.0004	----	----	28
29	----		----	0.0257	0.0070	0.0039	0.0005	0.0000	0.0000	0.0002	----	----	29
30	----		----	0.0226	0.0065	0.0044	0.0005	0.0000	0.0000	0.0002	----	----	30
31	----		----		0.0056		0.0007	0.0000		0.0003		----	31
TOTAL	----	----	----	1.0307	0.3661	0.4638	0.1512	0.0050	0.0000	0.0107	----	----	TOTAL
MEAN	----	----	----	0.0344	0.0118	0.0155	0.0049	0.0002	0.0000	0.0003	----	----	MEAN
MAX	----	----	----	0.1000	0.0255	0.0829	0.0284	0.0006	0.0000	0.0008	----	----	MAX
MIN	----	----	----	0.0045	0.0056	0.0026	0.0005	0.0000	0.0000	0.0000	----	----	MIN

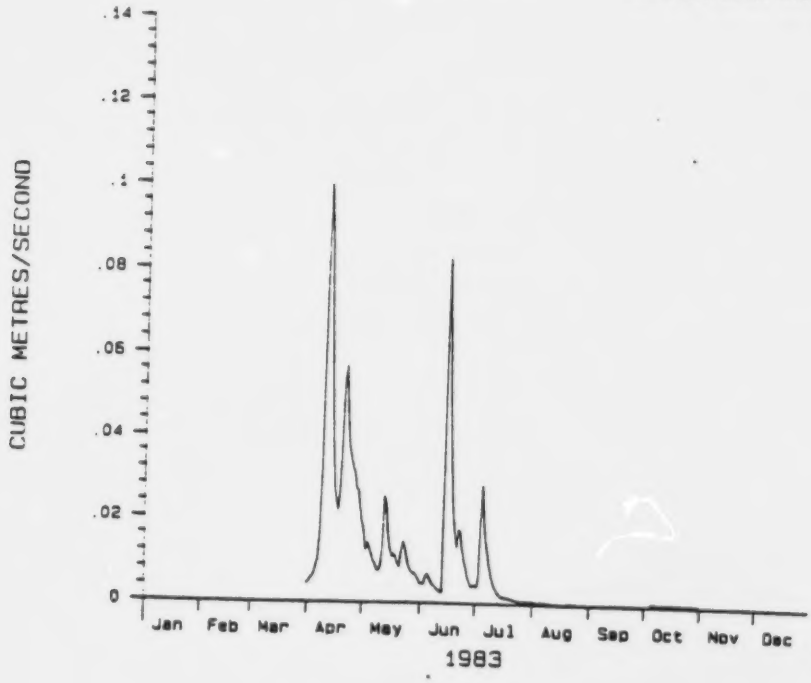
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	89052	31631	40072	13064	432	0	924	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	175176	CUBIC METRES	
MEAN DISCHARGE,	0.0096	CUBIC METRES/SEC	
MAX DAILY DISCHARGE,	0.1000	CUBIC METRES/SEC ON	APR 12
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON	AUG 15
MAX INSTANTANEOUS FLOW,	0.1174	CUBIC METRES/SEC ON	APR 10

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
C NOTCH CAPACITY EXCEEDED, ESTIMATED VALUE
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 661 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	----	----	0.0016 E	0.0127	0.0016	0.0056	0.0004	0.0004	0.0000	----	----	1
2	----	----	----	0.0081 E	0.0114	0.0012	0.0051	0.0002	0.0002	0.0000	----	----	2
3	----	----	----	0.0200 E	0.0095	0.0009	0.0050	0.0001	0.0001	0.0000	----	----	3
4	----	----	----	0.0408 A	0.0083	0.0009	0.0044	0.0000	0.0000	0.0000	----	----	4
5	----	----	----	0.0840 C	0.0077	0.0023	0.0039	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.3017 A	0.1090 C	0.0070	0.0031	0.0038	0.0000	0.0000	0.0000	----	----	6
7	----	----	----	0.1010 C	0.0087	0.0077	0.0031	0.0000	0.0000	0.0000	----	----	7
8	----	0.0012 A	----	0.0887 C	0.0136	0.0173	0.0029	0.0000	0.0000	0.0000	----	----	8
9	----	----	----	0.0786 C	0.0144	0.0361	0.0025	0.0000	0.0000	0.0000	----	----	9
10	----	----	----	0.0685	0.0120	0.0319	0.0020	0.0000	0.0000	0.0000	----	----	10
11	----	----	----	0.0572	0.0151	0.0227	0.0016	0.0000	0.0000	0.0000	----	----	11
12	----	----	----	0.0489	0.0184	0.0193	0.0014	0.0000	0.0000	0.0000	----	0.0048 A	12
13	----	----	----	0.0396	0.0137	0.0293	0.0015	0.0000	0.0000	0.0000	----	----	13
14	----	----	----	0.0321	0.0120	0.0255	0.0018	0.0000	0.0000	0.0000	----	----	14
15	----	----	----	0.0261	0.0104	0.0201	0.0013	0.0000	0.0000	0.0000	----	----	15
16	----	----	----	0.0220	0.0088	0.0174	0.0013	0.0000	0.0000	0.0000	----	----	16
17	----	----	----	0.0176	0.0080	0.0147	0.0012	0.0000	0.0000	0.0070	----	----	17
18	----	----	----	0.0152	0.0065	0.0126	0.0009	0.0000	0.0000	0.0181	----	----	18
19	----	----	----	0.0124	0.0060	0.0104	0.0006	0.0000	0.0000	0.0406	----	----	19
20	----	----	----	0.0106	0.0056	0.0085	0.0005	0.0000	0.0000	0.0717 C	----	----	20
21	----	----	----	0.0090	0.0056	0.0074	0.0006	0.0000	0.0000	0.0640	----	----	21
22	----	----	----	0.0076	0.0052	0.0086	0.0005	0.0000	0.0000	0.0542	----	----	22
23	----	----	----	0.0069	0.0047	0.0083	0.0004	0.0000	0.0000	0.0449	----	----	23
24	----	----	----	0.0068	0.0046	0.0077	0.0002	0.0000	0.0000	0.0357	----	----	24
25	----	----	----	0.0072	0.0044	0.0069	0.0002	0.0000	0.0000	0.0293	----	----	25
26	----	----	----	0.0074	0.0036	0.0069	0.0002	0.0000	0.0000	0.0242	----	----	26
27	----	----	----	0.0098	0.0032	0.0093	0.0001	0.0000	0.0000	0.0217	----	----	27
28	----	----	----	0.0180	0.0027	0.0099	0.0001	0.0000	0.0000	0.0206	----	----	28
29	----		----	0.0178	0.0026	0.0079	0.0001	0.0000	0.0000	0.0182	0.0179 A	----	29
30	----		----	0.0153	0.0020	0.0069	0.0003	0.0000	0.0000	0.0164	----	----	30
31	----		----		0.0019		0.0004	0.0000		0.0165		0.0037 E	31
TOTAL	----	----	----	0.9878	0.2493	0.3633	0.0534	0.0007	0.0007	0.4831	----	----	TOTAL
MEAN	----	----	----	0.0329	0.0080	0.0121	0.0017	.0000	.0000	0.0156	----	----	MEAN
MAX	----	----	----	0.1090	0.0164	0.0361	0.0056	0.0004	0.0004	0.0717	----	----	MAX
MIN	----	----	----	0.0016	0.0019	0.0009	0.0001	0.0000	0.0000	0.0000	----	----	MIN

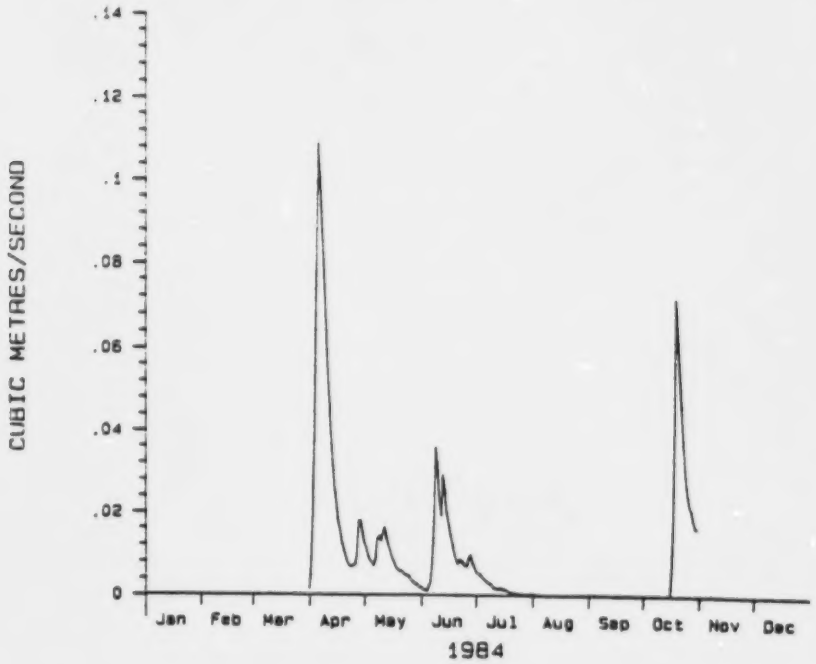
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	----	85346	21540	31389	4614	60	60	41740	----	----

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	184749	CUBIC METRES
MEAN DISCHARGE,	0.0101	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1090 C	CUBIC METRES/SEC ON OCT 20
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON AUG 4
MAX INSTANTANEOUS FLOW,	0.1335 C	CUBIC METRES/SEC ON OCT 20

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
C NOTCH CAPACITY EXCEEDED, ESTIMATED VALUE
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE



LAKE 661 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0037 E	—	—	—	0.0130	0.0106	0.0274	0.0002	0.0052	0.0110	0.0048	—	1
2	—	—	—	—	0.0134	0.0097	0.0202	0.0002	0.0065	0.0024	0.0044	—	2
3	—	—	—	—	0.0123	0.0084	0.0154	0.0003	0.0077	0.0089	0.0040	—	3
4	—	—	—	0.0305	0.0402	0.0068	0.0126	0.0007	0.0092	0.0085	0.0037	—	4
5	—	—	—	0.0222	0.0584	0.0056	0.0101	0.0008	0.0112	0.0082	—	—	5
6	—	—	—	0.0189	0.0574	0.0054	0.0090	0.0008	0.0110	0.0074	—	—	6
7	—	—	—	0.0199	0.0615	0.0054	0.0071	0.0005	0.0095	0.0072	—	—	7
8	—	—	—	0.0187	0.0519	0.0051	0.0056	0.0004	0.0074	0.0076	—	—	8
9	—	—	—	0.0139	0.0420	0.0045	0.0047	0.0004	0.0072	0.0095	—	0.0077 A	9
10	—	—	—	0.0128	0.0744	0.0040	0.0037	0.0002	0.0058	0.0110	—	—	10
11	—	—	—	0.0228	0.0634	0.0036	0.0073	0.0002	0.0045	0.0120	—	—	11
12	—	—	—	0.0179	0.0523 C	0.0074	0.0037	0.0005	0.0040	0.0216	—	—	12
13	—	—	—	0.0760	0.1490 C	0.0031	0.0025	0.0022	0.0075	0.0464	—	—	13
14	—	—	—	0.0465	0.1062 C	0.0029	0.0023	0.0025	0.0071	0.0464	—	—	14
15	—	—	—	0.0566	0.0965 C	0.0030	0.0018	0.0023	0.0029	0.0756	—	—	15
16	—	—	—	0.0510	0.1390 C	0.0041	0.0017	0.0020	0.0028	0.0098	—	—	16
17	—	—	—	0.0744	0.1052 C	0.0064	0.0014	0.0182	0.0027	0.0237	—	—	17
18	—	0.0010 A	0.0017 A	0.0322	0.0568	0.0103	0.0017	0.0337	0.0025	0.0096	—	—	18
19	—	—	—	0.0322	0.0429	0.0090	0.0017	0.0319	0.1538 C	0.0176	—	—	19
20	—	—	—	0.0245	0.0337	0.0076	0.0013	0.0252	0.1876 C	0.0152	—	—	20
21	—	—	—	0.1048 C	0.0271	0.0071	0.0009	0.0194	0.1215 C	0.0136	—	—	21
22	0.0012 A	—	—	0.7860 C	0.0222	0.0756 C	0.0008	0.0179	0.0594	0.0122	—	—	22
23	—	—	—	0.2512 C	0.0188	0.0726 C	0.0010	0.0255	0.0404	0.0114	—	—	23
24	—	—	—	0.1805 C	0.0157	0.0442	0.0013	0.0246	0.0333	0.0104	—	—	24
25	—	—	—	0.1422 C	0.0136	0.0348	0.0009	0.0186	0.0262	0.0092	—	—	25
26	—	—	—	0.1088 C	0.0114	0.0256	0.0008	0.0143	0.0200	0.0085	—	—	26
27	—	—	—	0.0662 C	0.0095	0.0352	0.0006	0.0120	0.0169	0.0076	—	—	27
28	—	—	—	0.0579	0.0080	0.0412	0.0005	0.0101	0.0150	0.0071	0.0050 A	—	28
29	—	—	—	0.0473	0.0067	0.0505	0.0005	0.0071	0.0139	0.0060	—	—	29
30	—	—	—	0.0404	0.0097	0.0771	0.0004	0.0068	0.0122	0.0055	—	—	30
31	—	—	—	—	0.0106	—	0.0003	0.0062	—	0.0050	—	0.0042 E	31
TOTAL	—	—	—	1.9245	1.4840	0.5550	0.1432	0.2858	0.8056	0.4530	—	—	TOTAL
MEAN	—	—	—	0.0642	0.0479	0.0185	0.0046	0.0092	0.0269	0.0146	—	—	MEAN
MAX	—	—	—	0.7860	0.1490	0.0756	0.0274	0.0337	0.1876	0.0464	—	—	MAX
MIN	—	—	—	0.0128	0.0067	0.0029	0.0003	0.0002	0.0025	0.0050	—	—	MIN

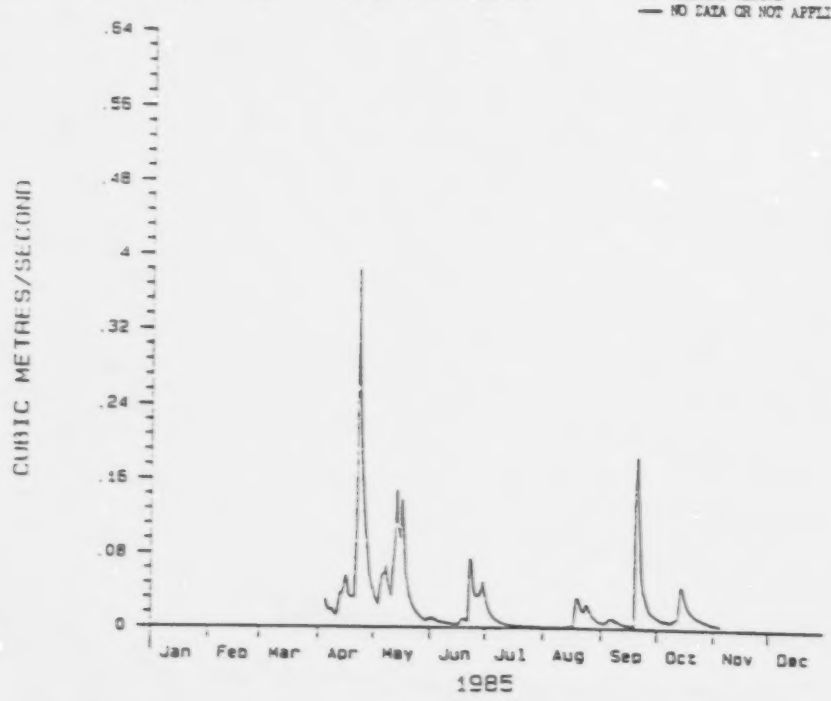
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	166277	128219	47952	12372	24693	69604	39139	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE.	488256	CUBIC METRES
MEAN DISCHARGE.	0.0265	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.7860 C	CUBIC METRES/SEC ON APR 22
MIN DAILY DISCHARGE.	0.0002	CUBIC METRES/SEC ON AUG 1
MAX INSTANTANEOUS FLOW.	M,C	CUBIC METRES/SEC ON APR 21

A MANUAL OBSERVATION, NON RECORDED VALUE
C FLOW EXCEEDED NOTCH CAPACITY AND WAS IN OVERFLOW RANGE. CONSIDER AS AN ESTIMATE
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 661 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1986

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0042 E	—	—	0.0905 E	0.1245 E	0.0013 E	0.0001	0.0000	0.0000	0.0013	0.0005	—	1
2	—	—	—	0.1048 E	0.1012 E	0.0012 E	0.0001	0.0000	0.0001	0.0016	0.0005	—	2
3	—	—	—	0.0948 E	0.0553	0.0010 E	0.0000	0.0000	0.0015	0.0019	0.0005	—	3
4	—	—	—	0.0924 E	0.0410	0.0009 E	0.0001	0.0000	0.0020	0.0020	0.0004 A	—	4
5	—	—	0.0012 A	0.0864 E	0.0792 E	0.0008 E	0.0017	0.0001	0.0022	0.0020	—	—	5
6	—	—	—	0.0650	0.0678 E	0.0006 E	0.0018	0.0000	0.0021	0.0018	—	—	6
7	—	—	—	0.0625	0.0519	0.0005 E	0.0015	0.0001	0.0017	0.0020	—	—	7
8	—	—	—	0.0544	0.0492	0.0003 E	0.0012	0.0002	0.0012	0.0019	—	—	8
9	—	—	—	0.0414	0.0310	0.0002 E	0.0009	0.0001	0.0010	0.0017	—	0.0027 A	9
10	—	—	—	0.0334	0.0263	0.0001 A	0.0006	0.0001	0.0009	0.0018	—	—	10
11	—	—	—	0.0289	0.0227	0.0000	0.0009	0.0000	0.0009	0.0017	—	—	11
12	—	—	—	0.0260	0.0203	0.0000	0.0010	0.0000	0.0010	0.0015	—	—	12
13	—	—	—	0.0215	0.0177	0.0000	0.0010	0.0000	0.0008	0.0015	—	—	13
14	—	—	—	0.0186	0.0153	0.0000	0.0009	0.0000	0.0007	0.0014	—	—	14
15	—	—	—	0.0163	0.0137	0.0000	0.0008	0.0000	0.0006	0.0013	—	—	15
16	—	—	—	0.0144	0.0122	0.0000	0.0005	0.0004	0.0005	0.0012	—	—	16
17	—	—	—	0.0129	0.0107	0.0000	0.0004	0.0002	0.0008	0.0010	—	—	17
18	—	0.0008 A	—	0.0119	0.0094	0.0000	0.0003	0.0000	0.0009	0.0010	—	—	18
19	—	—	—	0.0097	0.0081	0.0000	0.0005	0.0002	0.0008	0.0009	—	—	19
20	—	—	—	0.0464	0.0071	0.0001	0.0004	0.0002	0.0007	0.0008	—	—	20
21	0.0009 A	—	—	0.0167	0.0061	0.0002	0.0002	0.0001	0.0006	0.0007	—	—	21
22	—	—	—	0.0269	0.0051	0.0003	0.0001	0.0001	0.0009	0.0007	—	—	22
23	—	—	—	0.0269	0.0043	0.0001	0.0002	0.0001	0.0010	0.0006	—	—	23
24	—	—	—	0.0126	0.0036	0.0000	0.0002	0.0001	0.0009	0.0006	—	—	24
25	—	—	—	0.0262	0.0032	0.0002	0.0000	0.0001	0.0011	0.0006	0.0034 A	—	25
26	—	—	0.0015 A	0.0540	0.0026	0.0004	0.0000	0.0000	0.0012	0.0006	—	—	26
27	—	—	0.0013	0.0610 E	0.0022	0.0003	0.0000	0.0000	0.0015	0.0006	—	—	27
28	—	—	0.0024	0.0483 E	0.0019 A	0.0002	0.0000	0.0000	0.0016	0.0005	—	—	28
29	—	—	0.0019	0.0316 E	0.0018 E	0.0001	0.0000	0.0000	0.0015	0.0005	—	—	29
30	—	—	0.0017	0.1306 E	0.0016 E	0.0000	0.0000	0.0000	0.0015	0.0005	—	—	30
31	—	—	0.0494 E		0.0015 E		0.0000	0.0000		0.0005		0.0025 E	31
TOTAL	—	—	—	1.7052	0.7891	0.0088	0.0152	0.0021	0.0321	0.0367	—	—	TOTAL
MEAN	—	—	—	0.0568	0.0255	0.0003	0.0005	0.0001	0.0011	0.0012	—	—	MEAN
MAX	—	—	—	0.1916	0.1245	0.0013	0.0018	0.0004	0.0022	0.0020	—	—	MAX
MIN	—	—	—	0.0119	0.0015	0.0000	0.0000	0.0000	0.0000	0.0005	—	—	MIN

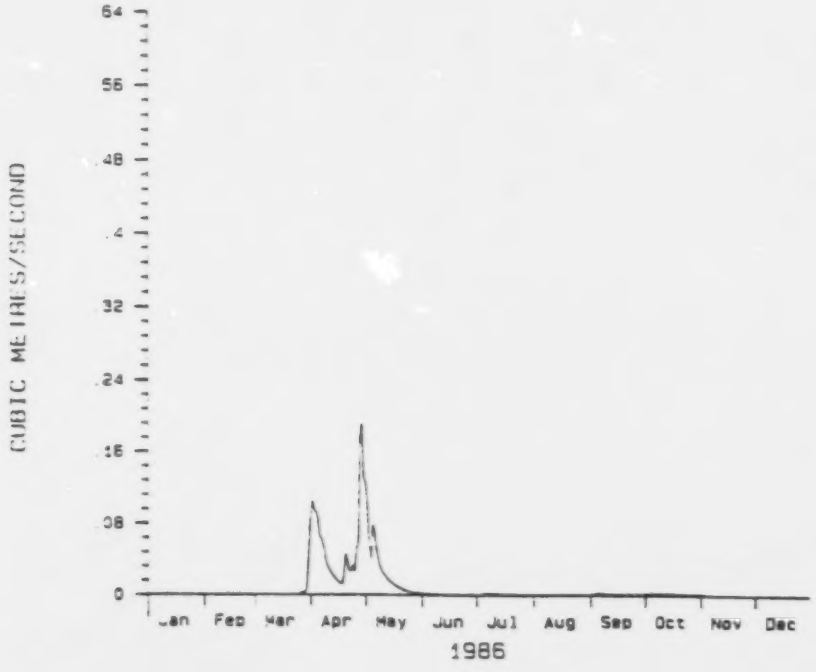
MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
—	—	—	147329	68178	760	1313	191	2773	3171	—	—

SUMMARY FOR THE MONTHS APRIL TO OCTOBER

TOTAL DISCHARGE,	227107	CUBIC METRES
MEAN DISCHARGE,	0.0122	CUBIC METRES/SEC
MAX DAILY DISCHARGE,	0.1916 E	CUBIC METRES/SEC ON APR 29
MIN DAILY DISCHARGE,	0.0000	CUBIC METRES/SEC ON JUN 11
MAX INSTANTANEOUS FLOW,	M.O	CUBIC METRES/SEC ON APR 28

A MANUAL OBSERVATION, NON RECORDED VALUE
C FLOW EXCEEDED STATION CAPACITY
E ESTIMATED VALUE
M MISSING RECORD
— NO DATA OR NOT APPLICABLE



LAKE 661 OUTFLOW
DISCHARGE SUMMARY IN CUBIC METRES PER SECOND FOR 1987

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0025 E	----	0.0003 E	0.0195	0.0032	0.0108	0.0003	0.0001	0.0000	0.0000	----	----	1
2	----	----	0.0003 E	0.0165	0.0028	0.0103	0.0004	0.0000	0.0000	0.0000	----	----	2
3	----	----	0.0003 E	0.0140	0.0024	0.0092	0.0004	0.0000	0.0000	0.0000	----	----	3
4	----	----	0.0003 E	0.0131	0.0020	0.0080	0.0003	0.0000	0.0000	0.0000	----	----	4
5	----	----	0.0003 A	0.0146	0.0017	0.0070	0.0002	0.0000	0.0000	0.0000	----	----	5
6	----	----	0.0003 E	0.0241	0.0014	0.0064	0.0001	0.0000	0.0000	0.0000	----	----	6
7	----	----	0.0003 E	0.0262	0.0014	0.0060	0.0001	0.0000	0.0000	0.0000	----	----	7
8	----	----	0.0003 E	0.0299	0.0012	0.0046	0.0001 E	0.0000	0.0000	0.0000	----	----	8
9	----	----	0.0003 E	0.0288	0.0011	0.0036	0.0001 E	0.0000	0.0000	0.0000	----	----	9
10	----	----	0.0003 E	0.0252	0.0008	0.0030	0.0001 E	0.0000	0.0000	0.0000	----	----	10
11	----	----	0.0003 E	0.0296	0.0006	0.0109	0.0001 E	0.0003	0.0000	0.0000	----	----	11
12	----	----	0.0003 E	0.0253	0.0005	0.0181	0.0001 E	0.0004	0.0000	0.0000	----	----	12
13	----	----	0.0003 E	0.0220	0.0005	0.0142	0.0001 A	0.0003	0.0000	0.0000	----	----	13
14	----	----	0.0003 E	0.0193	0.0006	0.0101	0.0001 E	0.0002	0.0000	0.0000	----	----	14
15	----	----	0.0003 E	0.0167	0.0008	0.0074	0.0001 E	0.0003	0.0000	0.0000	----	----	15
16	----	0.0000 A	0.0003 E	0.0148	0.0009	0.0060	0.0001 E	0.0005	0.0000	0.0000	----	0.0000 A	16
17	----	----	0.0003 E	0.0140	0.0009	0.0047	0.0004 E	0.0004	0.0000	0.0000	----	----	17
18	----	----	0.0003 E	0.0133	0.0007	0.0037	0.0004 E	0.0003	0.0000	0.0000	----	----	18
19	----	----	0.0003 E	0.0124	0.0007	0.0030	0.0004 E	0.0002	0.0000	0.0000	----	----	19
20	0.0024 A	----	0.0126 E	0.0117	0.0007	0.0025	0.0003 E	0.0002	0.0000	0.0000	----	----	20
21	----	----	0.0251 E	0.0109	0.0052	0.0022	0.0001 A	0.0002	0.0000	0.0000	----	----	21
22	----	----	0.0376 E	0.0100	0.0177	0.0019	0.0000 E	0.0001	0.0000	0.0000	----	----	22
23	----	----	0.0502 E	0.0088	0.0194	0.0012	0.0000 E	0.0000	0.0000	0.0000	----	----	23
24	----	----	0.0629 E	0.0076	0.0161	0.0009	0.0000 E	0.0000	0.0000	0.0000	0.0000 A	----	24
25	----	----	0.0756 A	0.0067	0.0137	0.0008	0.0000 E	0.0000	0.0000	0.0000	----	----	25
26	----	----	0.0781	0.0058	0.0171	0.0008	0.0000 E	0.0000	0.0000	0.0000	----	----	26
27	----	----	0.0643	0.0050	0.0235	0.0006	0.0000 E	0.0000	0.0000	0.0000	----	----	27
28	----	----	0.0517	0.0046	0.0233	0.0006	0.0000 E	0.0000	0.0000	0.0000	----	----	28
29	----		0.0412	0.0040	0.0189	0.0004	0.0000 E	0.0000	0.0000	0.0000	----	----	29
30	----		0.0319	0.0035	0.0154	0.0003	0.0000 E	0.0000	0.0000	0.0000 A	----	----	30
31	----		0.0243		0.0123		0.0001 A	0.0000		0.0000 E		0.0000 E	31
TOTAL	----	----	0.5610	0.4978	0.2080	0.1594	0.0044	0.0035	0.0000	0.0000	----	----	TOTAL
MEAN	----	----	0.0181	0.0166	0.0067	0.0053	0.0001	0.0001	0.0000	0.0000	----	----	MEAN
MAX	----	----	0.0781	0.0296	0.0235	0.0181	0.0004	0.0005	0.0000	0.0000	----	----	MAX
MIN	----	----	0.0003	0.0035	0.0005	0.0003	0.0000	0.0000	0.0000	0.0000	----	----	MIN

MONTHLY DISCHARGES IN CUBIC METRES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
----	----	48470	43010	17971	13772	380	302	0	0	----	----

SUMMARY FOR THE MONTHS MARCH TO OCTOBER

TOTAL DISCHARGE.	123906	CUBIC METRES
MEAN DISCHARGE.	0.0059	CUBIC METRES/SEC
MAX DAILY DISCHARGE.	0.0781	CUBIC METRES/SEC ON MAR 26
MIN DAILY DISCHARGE.	0.0000	CUBIC METRES/SEC ON JUL 22
MAX INSTANTANEOUS FLOW.	0.0855	CUBIC METRES/SEC ON MAR 25

A MANUAL OBSERVATION, NON RECORDED VALUE
B ICE CONDITIONS
E ESTIMATED VALUE
M MISSING RECORD
--- NO DATA OR NOT APPLICABLE

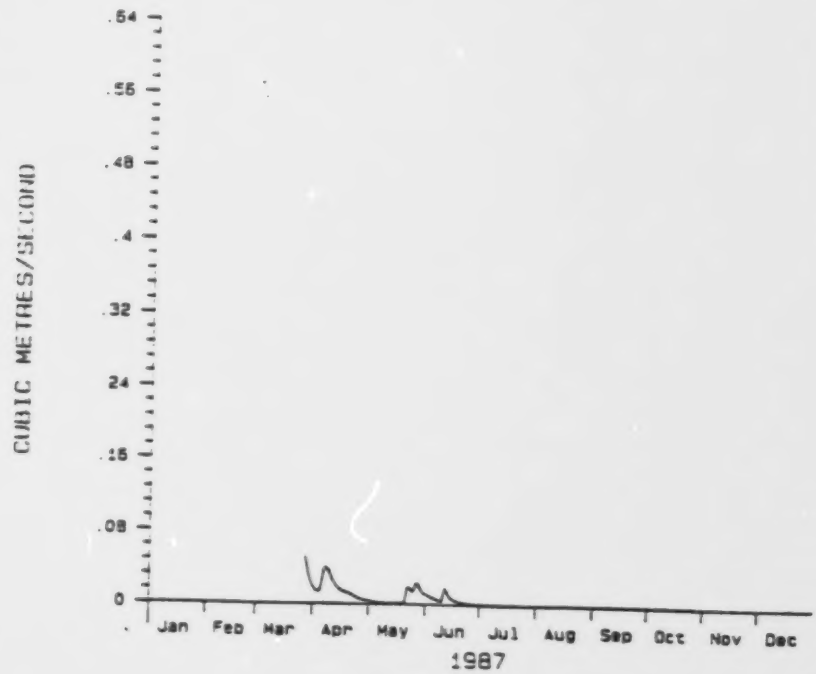


Table 75. Historical streamflow summary for ELA for the years 1969 to 1987.

STATION: LAKE 114 INFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984	-------	-------	527 *	M	M	631 *	0	0	0	2532	------	------	
1985	-------	-------	-------	4726	1806	1313	17	1253	1270	1244	------	------	11629
1986	-------	-------	-------	3663	1115	0	95	0	570	43	------	------	5486
1987	-------	-------	-------	268	605	207	0	536	0	0	------	------	1616
MEAN	-------	-------	------	2886	1175	538	28	447	460	955	------	------	6244
SD	-------	-------	------	2328	603	580	45	594	603	1199	------	------	5139

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 114 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971	------	------	------	51624	13848	7095	18643	2985	2789	43281	------	------	140265
1972	------	------	------	21702	17298	8930	16808	27647	15512	13041	------	------	120938
1973	------	------	------	28161	9566	6068	13554	14191	29384	27158	------	------	128082
1974	------	------	------	54732	41520	18815	171	6435	9566	10839	------	------	142078
1975	------	------	------	43893	23096	27158	8710	245	3866	1835	------	------	108803
1976	------	------	------	44602	2618	0	0	0	0	0	------	------	47220
1977	------	------	------	416	18717	32614	196	2080	19549	6655	------	------	80227
1978	------	------	------	52383	34865	17591	3450	4624	10276	4722	------	------	127911
1979	------	------	------	52790	29030	6307	86	0	0	0	------	------	88213
1980	------	------	------	33350	1296	0	0	0	0	1123	------	------	35769
1981	------	------	------	5184	1642	173	778	0	86	21946	------	------	29809
1982	------	------	------	46492 *	14921	6964	20321	130	0	20952	------	------	109780
1983	------	------	------	26827 *	8882	11042	2592	0	0	0	------	------	49343
1984	------	------	------	18101	1028	3093	78	0	0	7016 *	------	------	29316
1985	------	------	------	47382	44798	12977	6126	11940	19768	16209 *	------	------	159200
1986	------	------	------	41481	25704	0	0	0	0	0	------	------	67185
1987	------	------	------	10765	968	1218	0	0	0	0	------	------	12951
MEAN	------	------	------	34111	17047	9414	5383	4134	6517	10281	------	------	86388
SD	------	------	------	17714	14341	9729	7360	7474	9269	12261	------	------	46595

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS RECORD DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 120 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973	------	------	------	26571	15634	9762	16466	19035	34644	32712	------	------	154824
1974	------	------	------	56640	50230	18986	0	M	M	24344	------	------	
1975	STATION DISCONTINUED												
1976													
1977													
1978													
1979													
1980													
1981													
MEAN	------	------	------	41606	32932	14374	8233	19035	34644	28528	------	------	
SD	------	------	------	21262	24463	6522	11643			5917	------	------	

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS RECORD DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 223 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975									8221	3939	------	------	
1976	------	------	------	126467	42670	12233	27696	9346	2496	1028	------	------	221936
1977	------	------	------	8392	31342	123066	74500	18423	16026	10496	------	------	282245
1978	------	------	------	103787	216162	98845	62267	28895	14851	10031	------	------	534838
1979	------	------	------	96941 *	172454	53482	25920	13824	4320	2938	------	------	369879
1980	------	------	------	35338	30586	10886	6653	6394	2678 *	2678 *	------	------	95213
1981	------	------	------	4406	9936	49334	71626	20131	6307	6739 *	------	------	168479
1982	------	------	------	79021	122265	58000	113167	34119	7335	34240	------	------	448147
1983	------	------	------	30655 *	53879	63314 *	28400 *	5530	639	657	------	------	183074
1984	------	------	------	10809	32668	53663	21678	311	380	5556	------	------	125065
1985	------	------	------	156228 *	260893 *	76023	49308 *	47140	81743	72792	------	------	744127
1986	------	------	------	99187	151338	12709	11716	6532 *	16209	9253	------	------	306944
1987	------	------	------	59322	30214	30698	1547 *	11604 *	242 *	156	------	------	133783
MEAN	------	------	------	67546	96201	53521	41207	16854	12419	12346	------	------	301144
SD	------	------	------	50288	85306	34693	33466	13766	22546	20929	------	------	194658

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 224 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975									4698	5263	------	------	
1976	------	------	------	19255	5505	636	391	0	0	0	------	------	25787
1977	------	------	------	2618	13432	13261	17665	5627	10618	4159	------	------	67380
1978	------	------	------	40223	68971	33543	23855	17445	11842	5334	------	------	201213
1979	------	------	------	17366	53050	19786	19267 *	5357 *	1728	1469 *	------	------	118023
1980	------	------	------	9245 *	8035	259	173	432	86	432 *	------	------	18662
1981	------	------	------	0	0	605 *	2678	691	173	864 *	------	------	5011
1982	------	------	------	13020 *	15206	19155 *	37731	20641 *	3188 *	13980	------	------	109901
1983	------	------	------	12951	13020	11915	15656 *	2229 *	181 *	510	------	------	56462
1984	------	------	------	52 *	35	3715	1175	0	0	207	------	------	5184
1985	------	------	------	31346 *	125608	33437	17220	17289	23406	20866	------	------	269172
1986	------	------	------	13539	40038	8122	M	M	M	475	------	------	
1987	------	------	------	7750	6636	10264	2203	2229	0	0	------	------	29082
MEAN	------	------	------	12862	29128	12892	12547	6540	4660	4120	------	------	82352
SD	------	------	------	12760	37526	11720	12246	7936	7233	6372	------	------	86015

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 225 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975									489	1835	------	------	
1976	------	------	------	14288	6337	318	0	147	0	0	------	------	21090
1977	------	------	------	269	391	9713	6386	1688	905	1199	------	------	20551
1978	------	------	------	13065	20136	7315	1370	881	1566	1566	------	------	45899
1979	------	------	------	17194	14861	2333	0	0	0	0	------	------	34388
1980	------	------	------	5443	2246	0	0	0	0	0	------	------	7689
1981	------	------	------	0	0	1642	6912	0	86 *	6566 *	------	------	15206
1982	------	------	------	10308	11232	2886	12666	449	9	7923	------	------	35165
1983	------	------	------	1737	2601	5262	1814	17	0	0	------	------	11431
1984	------	------	------	1097	3335	3724	147	0	0	95	------	------	8398
1985	------	------	------	19414 *	25514	726	821	14623	11802	5910	------	------	78810
1986	------	------	------	15483	14049	0	0	0	0	0	------	------	29532
1987	------	------	------	4700	968	1313	0	0	0	0	------	------	6981
MEAN	------	------	------	7724	8473	2936	2510	1484	1143	1930	------	------	26262
SD	------	------	------	7551	8547	3086	4037	4170	3238	2882	------	------	20759

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 226 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972	------	------	------	38388	32149	9762	25812	47930	19475	12111	------	------	185627
1973	------	------	------	44040	20772	11524	26375	32712	49398	42302	------	------	227123
1974	------	------	------	69778	71613	31488	M	20552	19842	17224	------	------	
1975	------	------	------	66696	51575	43917	14558	24	12233	8514	------	------	197517
1976	------	------	------	83510	12135	4893	3474	0	0	0	------	------	104012
1977	------	------	------	17983	28308	72347	28087	7144	25494	7438	------	------	186801
1978	------	------	------	61876	61753	33862	10202	5383	3719	1688	------	------	178483
1979	------	------	------	67997 *	58579	17194	1382	0	0	0	------	------	145152
1980	------	------	------	45274	13565	605	778	11059	9590	13997 *	------	------	94863
1981	------	------	------	14083	8208 *	9245 *	5616 *	9504 *	691	43805 *	------	------	91152
1982	------	------	------	37800 *	44470	7845	59953	8156	26	61068	------	------	219318
1983	------	------	------	35027	28737	25393	9271	69	0	0	------	------	98497
1984	------	------	------	45490	20304	26594	3275	0	0	3173	------	------	98836
1985	------	------	------	62476 *	80158	27205	15457	39842	36072	20339 *	------	------	281549
1986	------	------	------	58337	50656	233	199	0	1426	9037	------	------	119888
1987	------	------	------	18334	9219	13340	6376	8078	4303 *	1140	------	------	60790
MEAN	------	------	------	47943	37013	20965	14054	11903	11392	15115	------	------	152641
SD	------	------	------	20525	23197	18679	15859	15350	14976	18365	------	------	63484

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 227 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970	------	------	------	37042	43452	4208	612	0	14362	24662	------	------	124338
1971	------	------	------	31782	16441	7144	17616	465	1174	27084	------	------	101706
1972	------	------	------	16662	18350	3450	11524	19573	7511	6533	------	------	83603
1973	------	------	------	16784	10814	5529	10178	11597	12600	16466	------	------	83968
1974	------	------	------	26473	26008	10496	0	1028	3988	5799	------	------	73792
1975	------	------	------	37287	20136	11548	3841	0	1810	2496	------	------	77118
1976	------	------	------	34938	3352	979	538	0	0	0	------	------	39807
1977	------	------	------	6239	14851	28724	4526	0	11426	3474	------	------	69240
1978	------	------	------	29727	41104	16613	2496	2398	4233	2178	------	------	98749
1979	------	------	------	26784	21341	6912	173	0	0	0	------	------	55210
1980	------	------	------	20563 *	4147	0	0	0	0	1123 *	------	------	25833
1981	------	------	------	7085	1901	16589	11405	864 *	3629 *	13392 *	------	------	54865
1982	------	------	------	21384 *	19734	7396	17073	492	1296	19984	------	------	87359
1983	------	------	------	17772	10973	8778	1719	0	0	0	------	------	39242
1984	------	------	------	5469 *	9858 *	6532	2117	0	0	1892	------	------	25868
1985	------	------	------	28305 *	39787 *	8148	4992	4063	32676	6947	------	------	124918
1986	------	------	------	23527	23155	484	0	0	0	0	------	------	47166
1987	------	------	------	6195	4450	4588	0	0	0	0	------	------	15233
MEAN	------	------	------	21890	18325	8229	4934	2249	5261	7335	------	------	68223
SD	------	------	------	10676	12817	6958	5964	5151	8313	8995	------	------	32734

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 230 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971	------	------	------	661	1590	1615	1908	489	1370	4282	------	------	11915
1972	------	------	------	2080	1982	294	1737	5260	2740	954	------	------	15047
1973	------	------	------	1517	1174	832	3597	5407	2765	4453	------	------	19745
1974	------	------	------	6435	M	M	0	M	M	M	------	------	
1975	------	------	------	4624	1933	2765	587	0	636	1052	------	------	11597
1976	------	------	------	6361	1688	636	342	0	0	0	------	------	9027
1977	------	------	------	5774	6606	8710	2398	342	807	636	------	------	25273
1978	------	------	------	7487	8783	7805	1957	1664	1346	685	------	------	29727
1979	------	------	------	6048	3542	86	0	0	0	0	------	------	9676
1980	------	------	------	3715	432	0	0	0	0	1210	------	------	5357
1981	STATION DISCONTINUED												
MEAN	------	------	------	4470	3081	2527	1253	1462	1074	1475	------	------	15263
SD	------	------	------	2363	2795	3363	1245	2258	1091	1694	------	------	7619

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 239 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970	43134	39611	68482	112130	465353	170532	52236	4649	138774	117048	183009	80568	1475526
1971	34522	23366	37996	183694	159522	118809	145576	49153	60506	205274	168330	74182	1260930
1972	40810	24858	24466	89596	200381	24540	125635	136205	110662	90208	75381	40879	983601
1973	21751	15659	16808	97842	123066	72494	133073	127715	142909	200136	70610	41799	1063852
1974	27916	22289	20503	206497	413239	217434	22680	87052	117439	109145	53900	31146	1329240
1975	36210	27941	22827	222082	273535	169186	111249	13065	57545	55881	42376	32687	1064584
1976	27672	26815	31024	299470	94000	49716	47440	6704	563	0	0	0	583404
1977	0	0	0	100313	177627	217752	78342	14215	76996	40712	66157	65105	837219
1978	26986	11157	8465	253326	336414	178214	48052	46266	38021	28479	14337	16613	1006330
1979	14083	10454	16762	248918	293587	99187	11750	0	0	0	15984	24710	735435
1980	17971	11923	12960	113616	72749	4838	19191	60653	50630	50544	49853	25747	490665
1981	11578	6307	7949	54000	20995	80179	150682	15379	57542	148003	60221	37930	650765
1982	21565 *	12139 *	13971	253437	177224	80395	141826	19639	10636	210047	45628	27812	1014319
1983	18023	9504	18230	154674	116571	67193	32460	1071	0	0	0	0	417726
1984	0	0	0	145688	78149	59443	12312	86	0	18723	54156	46639	415196
1985	19336	6005	7016	263848	390208	119007	79410	44142	147588	135492	41757	28866	1282675
1986	16917	11241	13245	246491	262578	9893	2825	0	112	786	26	0	564114
1987	0	0	78382	125893	30879	44652	2333	112	0	0	0	0	282251
MEAN	21026	14404	22171	176195	204782	99081	67615	34784	56107	78360	52318	31925	858768
SD	13112	10997	21074	74510	134339	67280	53994	43325	54865	76041	51811	24388	357267

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: NORTHEAST INFLOW TO LAKE 239

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971							M	1008	1901	8688 *	------	------	
1972	------	------	------	------	5121	1700	6870	6283	4651 *	M	------	------	
1973	------	------	------	------	2833	3951	5842	3910	M	M	------	------	
1974	------	------	------	------	M	7425	563	9059 *	4122 *	4272	------	------	
1975	------	------	------	------	5752 *	9583	1837	1277	7359	5637	------	------	31445
1976	------	------	------	------	1135	4254	680	450	34	269 *	------	------	6822
1977	------	------	------	M	M	M	M	1377 *	M	1779 *	------	------	
1978	------	------	------	20644 *	8340	4653	1463	1370	1617	842	------	------	38929
1979	------	------	------	M	6186	1547	78	0	0	501	------	------	
1980	------	------	------	7983 *	786	0	458	1089	1676	1858	------	------	13850
1981	------	------	------	1149 *	648	4951	3482	95	2886	4787	------	------	17998
1982	------	------	------	12900 *	4173	1313	5167	35	1538	8001	------	------	33127
1983	------	------	------	6532 *	3007	2039	2955	17	0	372	------	------	14922
1984	------	------	------	6687	2229 *	4977	726 *	0	0	4942	------	------	19561
1985	------	------	------	16848	14221 *	5149	1115	3491	9504	5054	------	------	55382
1986	------	------	------	15673	6437	26	276	52	1408	942	------	------	24814
1987	------	------	------	2532	2169	1210	216	639	0	60	------	------	6826
MEAN	------	------	------	10105	4503	3519	2115	1774	2446	3200	------	------	23971
SD	------	------	------	6726	3653	2739	2239	2547	2867	2897	------	------	14759

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: NORTHWEST INFLOW TO LAKE 239

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970							3058	636	26055	30508	------	------	
1971	------	------	------	M	25786	15609	24343	5162	9468	49444	------	------	
1972	------	------	------	27915 *	18006	7388	21260	21725	14581	13798 *	------	------	124673
1973	------	------	------	M	12306	8049	14703	11670	24734	19719	------	------	
1974	------	------	------	46239 *	33884	26789 *	416 *	13921 *	4991	7731	------	------	133971
1975	------	------	------	29431 *	24000	20967	5529	1199	8269	6973	------	------	96368
1976	------	------	------	47413	4379	9077	1076	440	220	122 *	------	------	62727
1977	------	------	------	14875	16318	29945	4795	1174	10177	3596 *	------	------	80880
1978	------	------	------	56588	31022	12551	3107	4917	6190	2960	------	------	117335
1979	------	------	------	44064	23933	7258	432	0	0	518	------	------	76205
1980	------	------	------	24883	4752	1642	8122	15466	12787	13046	------	------	80698
1981	------	------	------	14800	3534	25220 *	15604 *	3637	18084 *	23328 *	------	------	104207
1982	------	------	------	47364 *	15232	8891	21842	1296	6929	29860	------	------	131414
1983	------	------	------	40910	13720	12563	4519	43	0	683	------	------	72438
1984	------	------	------	34655	7508	12036	994	0	0	20658	------	------	75851
1985	------	------	------	61292 *	39813	19725	3439	10765	29229	15335	------	------	179598
1986	------	------	------	63806	18611	35	337	0	2341	4743	------	------	89873
1987	------	------	------	18014	13651	7197	60	337	0	0	------	------	39259
MEAN	------	------	------	38150	18027	13232	7424	5133	9670	13501	------	------	97700
SD	------	------	------	16199	10578	8641	8270	6651	9528	13493	------	------	35016

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: EAST INFLOW TO LAKE 239

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971					77701 *	42961 *	73811	14777	30263	105738	------	------	345251
1972	------	------	------	------	64270 *	28918	71364	61211	51572	32000	------	------	309335
1973	------	------	------	------	37970 *	41982	55144	42643	88637	92625	------	------	359001
1974	------	------	------	------	175610	101652	19009	98007	50276	56710	------	------	501264
1975	------	------	------	------	96588 *	88466 *	26227	22043	45921	34594	------	------	313839
1976	------	------	------	116844 *	19156	51107	6581	15095	4232	6336	------	------	219351
1977	------	------	------	69163 *	90398	96881	24000	19009	67719	22679	------	------	389849
1978	------	------	------	205971 *	101505	47144	22116	33101	33101	17664	------	------	460602
1979	------	------	------	106790	86314	35942	2333	259	1382	14861	------	------	247881
1980	------	------	------	111110 *	18490	7862 *	32141	36029	31709	35338 *	------	------	272679
1981	------	------	------	36953	10843 *	60506	35700	4432	44375	62597 *	------	------	255406
1982	------	------	------	217339	51503	26093	55935	3447	35925	80844	------	------	471086
1983	------	------	------	130231	40668	32581	10999	0	95	6748	------	------	221322
1984	------	------	------	112104	24900	32772	1693	0	0	66813	------	------	238282
1985	------	------	------	199480 *	166320	70813	7197 *	42811	96949	54985	------	------	638555
1986	------	------	------	168022 *	52574	1253	2549	0	10809	12476	------	------	247683
1987	------	------	------	43736	20719	15638	0	302	0	216	------	------	80611
MEAN	------	------	------	126479	66796	46034	26282	23127	34880	41366	------	------	327765
SD	------	------	------	60838	49030	29465	24521	26960	30484	32197	------	------	133180

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: EAST UPPER WEIR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973									34400	34816	------	------	
1974	------	------	------	------	------	------	------	46413	22191	22387	------	------	
1975	------	------	------	52701 *	31709	32442	10667	12796	23341	18007	------	------	181663
1976	------	------	------	59845	17445	25543	4502	11255	4869	4453	------	------	127912
1977	------	------	------	44847	38217	41838	13163	9566	28357	9909	------	------	185897
1978	------	------	------	81522	50156	23341	13530	15585	14973	9517	------	------	208624
1979	------	------	------	80525 *	36288	15898	2333	1296	2678	7949	------	------	146967
1980	------	------	------	48816	9936	4579	12269	13478	12528	13910	------	------	115516
1981	------	------	------	16589	6653	28685	15120	1555	17626	24538 *	------	------	110766
1982	------	------	------	50907 *	26248	14187	24909	2506	15941	35744	------	------	170442
1983	------	------	------	42837	19466	14766	4648	199	1123	4571	------	------	87610
1984	------	------	------	31087 *	9461	13409	942	0	86	17185	------	------	72170
1985	STATION DISCONTINUED												
1986													
1987													
MEAN	------	------	------	50968	24558	21469	10208	10423	14843	16916	------	------	140757
SD	------	------	------	19929	14423	10988	7271	13327	11116	10725	------	------	45298

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 240 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969					401251	309501	194019	455077	180073 *	365040	112057 *	79271 *	
1970	51649 *	35060 *	60261 *	190423	951992 *	348648	108117	6092	260054	269376	335191 *	135789 *	2752652
1971	63564 *	36577 *	37214 *	413435	334702	253473	333234	88838	93853	451162	352562	138970	2597584
1972	76091 *	47856 *	49398 *	157662 *	445535	87199	226535	263260	210657	166862	133342	85804	1950201
1973	56077	25127 *	37850	25880	285769	152426	217507	276471	317575 *	412994	160011	111176	2078863
1974	60775	46315	37360	450600	749409	406144	53875	85143	226315	195243	126492	81400	2519071
1975	88300	68702	52725 *	418254 *	585972 *	355498	255381	25518	80226	115482	112790	90110	2248958
1976	65448	55563	59845	629131	278184	82844	92459	2863	0	0	0	0	1266337
1977	0	0	40027	180905	344243	536305	211782	47612	169259	128620 *	197126 *	190594 *	2046473
1978	91456 *	44309	33079	531265	771673	415685	124534	105597	102637	79467	40541	59503 *	2399746
1979	50458 *	45101 *	68602	507946	670723	238032	39053	0	0	86	12182 *	52790 *	1684973
1980	61603 *	45014	38794 *	252893	186624	18230	21168	150854	166493	162950	149731	86832 *	1341186
1981	46310 *	30240	24538	156211	81734	159667	446688	80093	143683	449798	206928	134957	1960847
1982	85199	52255	52695	623074	480211	254940	436052	85873	23484	535386	177656	113910	2920735
1983	75211 *	47434 *	63884	396913	326834	217892	119845	8441	0	0	0	0	1256454
1984	0	0	0	373334 *	208742 *	167098 *	64083 *	2670	0	34992	171063	161035	1183017
1985	82028	40634	41524	627584	877522	313848	233859 *	106073 *	361610	351104	131285	94255	3261326
1986	55547 *	37454 *	45801	610027	677393	49032	13591	43	0	0 *	2981 *	22740	1514609
1987	16606	13193	87877	351138	110307	140737	18870	1996	0	0	0	0	740724
MEAN	57018	37269	46193	383149	461517	237221	168982	94343	122943	195714	127470	86270	1984653
SD	27389	18128	19020	187838	267723	141404	136808	85234	118812	182153	107456	56234	684917

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 261 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971	------	------	------	31611 *	17983	8759	10570	1444 *	1884	28455	------	------	100706
1972	------	------	------	31806	19329	6606	13114	29384	11010	7536 *	------	------	118735
1973	------	------	------	49520 *	10105	0	32589	12918	28993	33935	------	------	168060
1974	------	------	------	77387 *	56175	28479	2422	14460	11279	10643 *	------	------	200845
1975	------	------	------	53337 *	47318	26644	10863	563 *	5872	3132	------	------	147729
1976	------	------	------	80030	4013	367	245	122	0	0	------	------	84777
1977	------	------	------	11230	16148	26155	7071	1933	18937	2960	------	------	84434
1978	------	------	------	37165 *	41935 *	20038	2520	1052	5970	3817	------	------	112497
1979	------	------	------	60653 *	30413	8035	259	0	0	0	------	------	99360
1980	------	------	------	19613	1037	0	0	0	0	5616 *	------	------	26266
1981	STATION DISCONTINUED												
MEAN	------	------	------	45235	24446	12508	7965	6188	8395	9609	------	------	114346
SD	------	------	------	23118	18795	11676	9953	9797	9526	11891	------	------	48911

STATION: LAKE 265 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971	------	------	------	44749 *	36284	18374	15707	4526	3621	23047	------	------	146308
1972	------	------	------	21408 *	42351 *	20038	17518	32834	19524	14288 *	------	------	167961
1973	------	------	------	21849 *	27305	12674	25176	42767	25494	46388	------	------	201653
1974	------	------	------	M	70586	60359	7487	14166	16148	13383	------	------	
1975	------	------	------	67576	70292	49765	12796	930	15659	15732	------	------	232750
1976	------	------	------	63466	1223	1811	1541	1664	1395	930	------	------	72030
1977	------	------	------	2618	3964	7707 *	4624	3279	14460	7731	------	------	44383
1978	------	------	------	75797	74574	35109	5309	1786	4991	5138	------	------	202704
1979	------	------	------	75946	44323	14688	2851	1901	2333	4493	------	------	146535
1980	------	------	------	45446 *	2678	86	86	3110	4406	10454 *	------	------	66266
1981	STATION DISCONTINUED												
MEAN	------	------	------	46539	37358	22061	9310	10696	10803	14158	------	------	142288
SD	------	------	------	26515	28622	20176	8169	14963	8459	13020	------	------	67409

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 302 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980									1287	2514	------	------	
1981	------	------	------	890	1840	11880	33221	2557	2419	30404	------	------	83211
1982	------	------	------	41783 *	48220	27985	44461	5841	562	29497 *	------	------	198349
1983	------	------	------	23916 *	28935	18248	16260	5409	294	225 *	------	------	93287
1984	------	------	------	28417 *	21203	24097	10031	130	0	10195	------	------	94073
1985	------	------	------	52920 *	91048	32132	24693	25669	31640	29048	------	------	287150
1986	------	------	------	47935	65292	3940	3560	1063	6817	5244 *	------	------	133851
1987	------	------	19794 *	32340	6394	9150	4890	2773	968	492	------	------	76801
MEAN	------	------	------	32600	37562	18205	19588	6206	5498	13452	------	------	138103
SD	------	------	------	17469	32488	10407	15308	8832	10787	13777	------	------	78082

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 302 UPLAND WATERSHED

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987	------	------	------	1806	2039	1210	0	2687	3652 0	939 43	------ ------	------ ------	7785
MEAN	------	------	------	------	------	------	------	------	1826	491	------	------	
SD	------	------	------	------	------	------	------	------	2582	634	------	------	

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
2. VALUE IN THE 'TOTAL' COLUMN FOR LESS THAN 12 MONTHS IS THE TOTAL FOR THOSE MONTHS AND IS NOT NECESSARILY THE ANNUAL FLOW.
4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 303 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970	------	------	------	23292 *	49496	42474 *	18277 *	513	41446	76213	------	------	251711
1971	------	------	------	56518 *	26840 *	15487	28161	3156	7952	58255	------	------	196369
1972	------	------	------	28479 *	18056	5260	18961	24809	12869	9493	------	------	117927
1973	------	------	------	31978 *	10251 *	5847	15879	18130	31880	23047	------	------	137012
1974	------	------	------	62463 *	46070	19793	661	4869	9566	11083	------	------	154505
1975	------	------	------	53459 *	28136	29335	7022	759	4673	6484	------	------	129868
1976	------	------	------	56542	5187	5334	3597	2031	954	147	------	------	73792
1977	------	------	------	9224	15683	40467	8319	2251	12013	6141	------	------	94098
1978	------	------	------	65252	36015	18790	2960	5138	7756	4747	------	------	140658
1979	------	------	------	56851	32573	9331	950	0	0	0	------	------	99705
1980	------	------	------	34733	3456	0	0	12184	14429	15898 *	------	------	80700
1981	------	------	------	13133	1901	22464	23933	3024	20131	34646 *	------	------	119232
1982	------	------	------	61085 *	19829	11292	30024	95	1659	37774	------	------	69725
1983	------	------	------	36945	12286	14576	5495	225	112	86	------	------	73983
1984	------	------	------	33039 *	8243	12666	1503	207	0	18325	------	------	287150
1985	------	------	------	52920	91048	32132	24693	25669	31640	29048	------	------	287150
1986	------	------	------	59823	24751	32	9	0	77	509	------	------	85201
1987	------	------	18291 *	15250	6506	5348	242	78	60	43	------	------	45818
MEAN	------	------	------	41721	24240	16146	10594	5730	10957	18441	------	------	135811
SD	------	------	------	18706	21885	12920	10783	8540	12691	21675	------	------	73840

NOTES:
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4. ---- INDICATES THAT CONTINUOUS DATA DOES NOT EXIST AND MONTHLY TOTALS WERE NOT AVAILABLE
5. M INDICATES SOME MISSING RECORD FOR THE MONTH
6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 382 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987	------	------	18878 *	44289 *	65076 *	48998 *	942 *	1788	0	0	------	------	179971
MEAN	------	------	------	------	------	------	------	------	------	------	------	------	
SD	------	------	------	------	------	------	------	------	------	------	------	------	

NOTES:
1. ALL FLOW VOLUMES ARE IN CUBIC METRES.
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6. * INDICATES A DATA SET THAT CONTAINS SOME ESTIMATED RECORD

Table 75. continued.

STATION: LAKE 470 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	M	M	M	133954 *	21873 *	22509 *	28087 *	101829 *	44602	103615	23145	17543	
1970	18717 *	22729 *	24393 *	150493	196466	43453	11132	1541	70512	67674	65056 *	18790 *	690956
1971	9762 *	0 *	0 *	181027 *	41128	53875 *	84286	24760	26032	133685	74305	17616	646476
1972	7120	5138	3792	109561	67527 *	19598	75259	92997	53777	37042	34057	6337	512205
1973	4551	4477	49	140878	48664	32149	54829	62414	116167	89914	26815	17469	598376
1974	636	0	0	284765	192135	82745	25	22803	30289	22705	15071	13139	664313
1975	11328	8906	9689	228835	65277	101634	24638	343	18570	23390	26204	20699 *	539513
1976	8196 *	6141 *	8563	180538	16539	27721	3523	1370	1052	5113	6141	49275	314172
1977	5187	0	734	27525	40321	163461 *	39905 *	5725	56126	14998	74305 *	31684 *	459971
1978	9420	3597	3670	249313	147582	68408	12796	26057	26913	16099	7169	15854	586878
1979	16157	22118 *	18317 *	221443 *	137462	36806	1642	0	0	0	19094	13651	486690
1980	8294	4234	3197	124762	19699	0	9850	52272	48384	56765	29808	13219	370484
1981	5011	864	9590	61171	13133	64195	103853	15466	64195	116899	38880	22118	515375
1982	11638	5918	5357	22297	80352	55374	127241	4657	7862	150103	25177	14360	510336
1983	7327	4372 *	8588	151062	42379	62018	18585	441	0	0	3689	5867	304328
1984	25566	4968	3948	150742	31476	52134	10299	0	0	61603	45939	25701	412376
1985	6584	3361	7957	257031	198037	88614	30724	37748	118377	67150	15526	9461	840570
1986	2091	1642	12554	226117	142811	52	1676	173	4225	5141	9029	5754	411265
1987	1149	0	64005	69543	23432	21928	52	0	0	0	0	0	180109
MEAN	8819	5470	10245	156371	80331	52457	33600	23716	36162	51152	28390	16765	502466
SD	6304	6665	14901	76741	66168	38885	38069	32054	37172	48449	22637	10890	158918

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Table 75. continued.

STATION: LAKE 661 OUTFLOW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983	------	------	------	89052 *	31631	40072	13064	432	0	924	------	------	175175
1984	------	------	------	85346 *	21540	31389	4614	60	60	41740	------	------	184749
1985	------	------	------	166277 *	128218	47952	12372	24693	69604	39139	------	------	488255
1986	------	------	------	147329 *	68178 *	760 *	1313	181	2773	3171	------	------	223705
1987	------	------	48470 *	43010	17971	13772	380 *	302	0	0	------	------	123905
MEAN	------	------	------	106203	53508	26789	6349	5134	14487	16995	------	------	239158
SD	------	------	------	50057	46261	19316	6028	10935	30834	21453	------	------	143723

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